



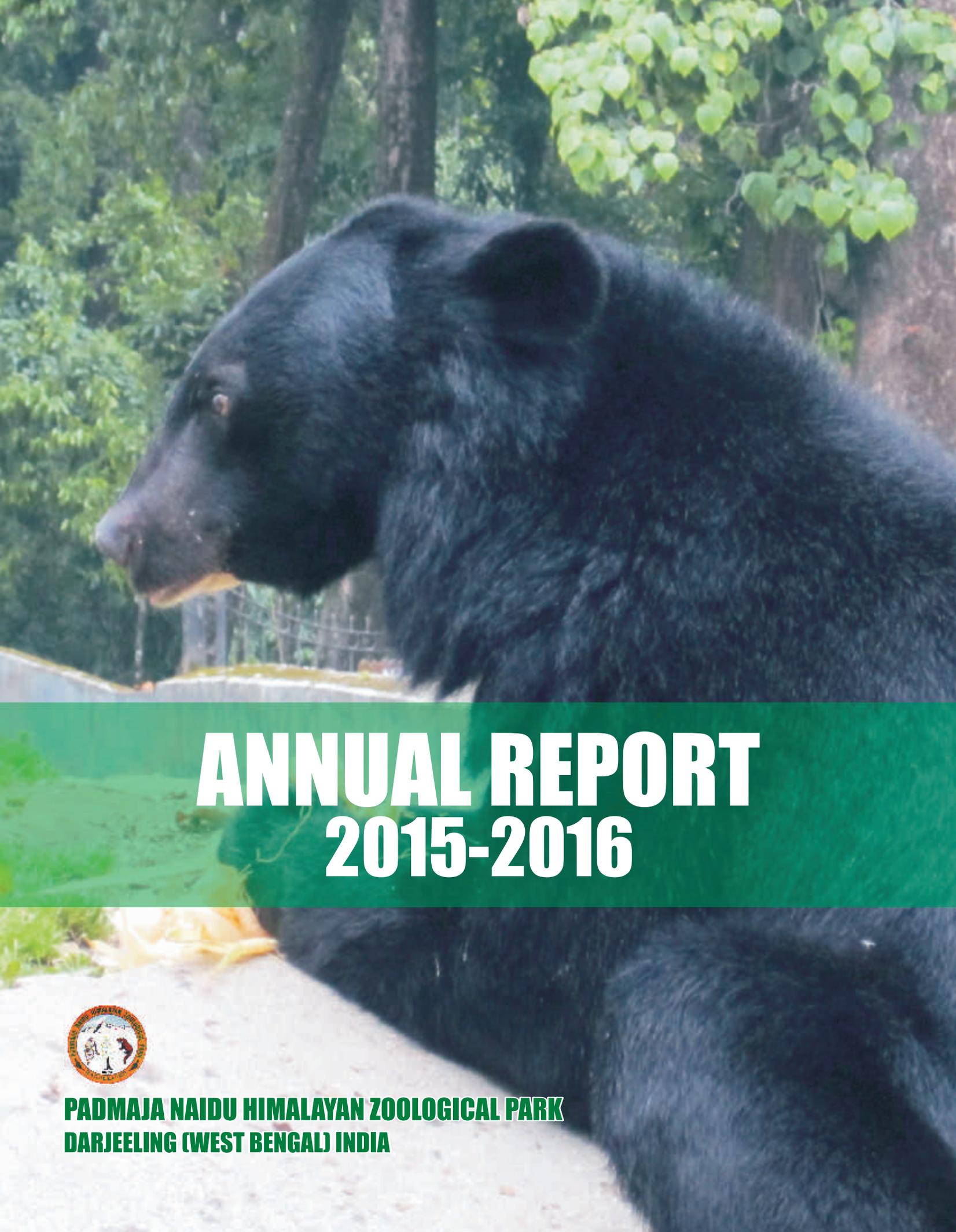
ANNUAL REPORT 2015-2016



PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK
DARJEELING (WEST BENGAL) INDIA

MAP OF DARJEELING ZOO





ANNUAL REPORT 2015-2016



PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK
DARJEELING (WEST BENGAL) INDIA

PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK, DARJEELING, WEST BENGAL

At A Glance

Year of Establishment	:	1958
Area	:	Main Zoo : - 67.56 Acres Dow Hill (Conservation Breeding centre) 4.65 hectares Topkeydara(Conservation Breeding Centre)- 5 hectares
Category of Zoo	:	Small
Altitude	:	7000 ft (2150 mts) approx
Temperature	:	20°C to 26°C highest and 1°C to 5°C lowest
Mailing Address	:	Padmaja Naidu Himalayan Zoological Park Jawahar Parbat Darjeeling 734 101
Telephone No.	:	0354 – 2254250 (O) 2253709 (O)
Fax No.	:	0354 – 2252522
E-Mail	:	pnhzp@yahoo.com
Web	:	www.pnhzp.gov.in
Zoo Timings	:	8.30 am to 4.00 pm (winter) 8:30 am to 4:30 pm (summer)
Closing Day	:	Thursday
Annual Visitors	:	Nos. of Tourists visited the Zoo & BNHM - during the year 2015-16
No of Animal Species & Birds (as on 31 st March, 2013	:	i) 1 Species of Amphibian ii) 11 Species of Birds iii) 21 Species of Mammals iv) 4 Species of Reptile v) 12 Species of Pheasant
Grant of Recognition by Central Zoo Authority to PNHZ Park vide their No F.No. 19-20/92-CZA(325) (Vol. IX)/367/2016 dtd 03.03.2016	:	As medium Category Zoo valid upto 20 th January 2019
Membership granted to PNHZ Park by World Association of Zoos and Aquariums (WAZA)	:	w.e.f 14 th Sept, 2009

ENTRY FEE FOR THE ZOO

A. MAIN ZOO

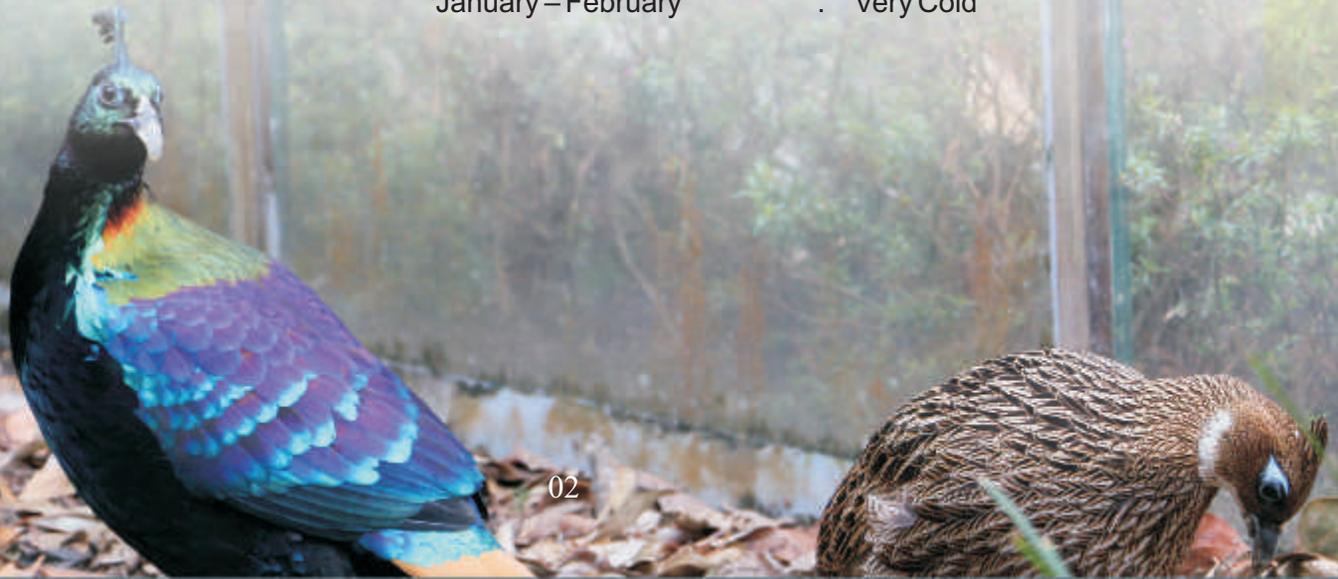
Sl. No.	Category	Entry Fee for PNHZ Park (Rs.)
1.	Visitors from SAARC Countries	20.00
2.	All other foreigners	50.00
3.	Children below 6 years age	Free
4.	Students (in groups of 10 and above sponsored by their respective schools)	50% of Sl. no. 1 above.

Distance : Padmaja Naidu Himalayan Zoological Park is 85 Km from Bagdogra Airport which is served by daily flights from Delhi, Kolkata, Mumbai, Patna & Guwahati. The Railway Junction, New Jalpaiguri, is also of the same distance and is well connected with all Major centres of the country. Siliguri, the major developing city is 2½ hrs. drive by car and 6 hrs. by Toy Train.

Best time to visit : March to June and September to January

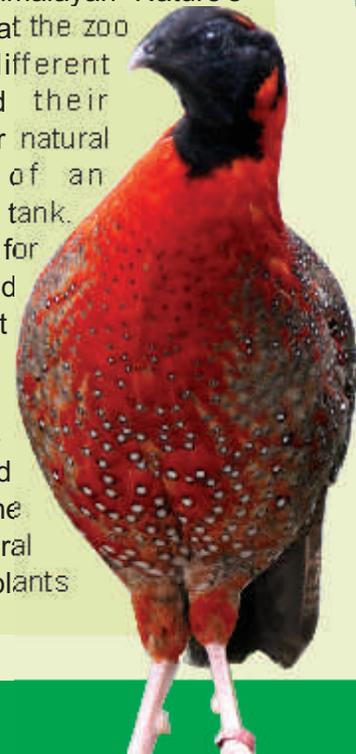
Climate :

March – June	: Pleasant Weather
July – September	: Rainy Season
September – October	: Fair Warm Climate
November – December	: Cold
January – February	: Very Cold



From pages of History

1. **1980- 81-** Granted permission by the Forest Directorate for capturing of some rare high-altitude fauna and also conducting research on them. Yak calves, Barking deer, Himalayan Black Bear, Mongoose procured from the wild. 52 white rats and 4 rabbits purchased with a view to establish an educative children's corner and also using them in the contemplated research programme. Approval of 7 collaborative research schemes submitted to the Department of Science & Technology on 16.12.80 urging financial assistance. Regular lectures by the Director of the Park for popularization of high altitude fauna and flora. Prominent trees within the park area labeled with Scientific names, to arouse interest in nature study. Construction of direct pipe- line connection from Jalaphar area under joint project of the H.M.I and the society within the zoo campus.
2. **1981 – 82---** Partial success achieved in procuring some species of the hill region. Collection of the park shows steady increase in number through departmental trapping, purchase and by way of birth. Red panda, Satyr Tragopan etc are worth mentioning. Exchange programme begins. 1 pair of Silver Pheasant, 1 pair of Bantam Pheasant. From Alipore Zoological Garden, Calcutta. Negotiations with other Zoological Gardens in India and abroad are being continued for securing exhibits on exchange basis. A mini laboratory equipped with a microscope, centrifuge machine and reagents set up. Research project "Studies on the Ecology, Reproductive Biology and Conservation of the endangered Salamander of the Eastern Himalayas, *Trylotrition verrucosus*" approved by the Dept. of Science and Technology.
3. **1982 -83---** Received 1 pair of Silver Pheasant, 1 pair of Golden Pheasant from Alipore Zoological Garden.
4. **1984-85----** Birth of two Ussuri tigers (*Panthera tigris altaica*). 1 male born on 31.10.73 and 1 female on 8.7.82. A pair of Ussuri (Amur) Tigers received from Helsinki Zoo as a gift on 6.2.85.
5. **1985-86----** The Snow Leopard Breeding Centre starts functioning with an initial pair. Procured one Royal Bengal Tiger (*Panthera tigris*) from the Forest Department as a gift on 9.5.85
6. **1986-87--**A pair of Snow Leopards received from Zurich Zoo, Switzerland on loan. A pair of Ussuri (Amur) tigers received from Helsinki Zoo, Finland
7. **1987- 88---** The Chairperson of International Snow leopards Trust accompanied by a team of experts visited the zoo in October 1988, after getting fully satisfied with the standards of management and upkeep of the first pair at PNHZ Park, the loan of a second pair was cleared by the trust.
8. **1989-90---** Tibetan wolf added to the stock, a pair received from Shimla zoo in exchange for a pair of Tragopan pheasants. Success in breeding the rare Tragopan pheasant and Kalij pheasant
9. **1990-91--** Received a pair of Ussuri tiger from Whipsnade Zoological Park of the London Zoological Society on 26. 2.90. Two cubs of Ussuri tiger born.
10. **1993-94---** The zoo has already started a captive breeding project on Red panda in collaboration with Rotterdam zoological and Botanical gardens, the Netherlands, with an intention to reintroduce the animal in to the wild if needed.
11. **1994-95--** Birth of first Red Panda. 20.6.94
12. **1996-97--** Received a pair of Himalayan Thar from Helsinki Zoo and donated a pair of red panda to Gangtok Zoo, Tibetan wolf (one pair), Siberian Tiger (one pair) to Nainital Zoo. Conducted a training Programme for the staff of Sikkim Zoo.
13. **1997-98-** Construction of Store kitchen.
14. **1998-99-** An audio visual Himalayan Nature's Interpretation Centre set up at the zoo depicting dioramas of different Himalayan flora and fauna and their behavior and mobility in their natural habitat. Construction of an underground water storage tank. Construction of enclosures for blue sheep and clouded leopard. One building for post moterm facilities have been built up., enclosures modified by planting numerous types of shrubs, climbers and flowering plants thus giving the zoo more greenery and natural outlook. Numerous bamboo plants



including climbers have been grown in.

15. **1999-2000**- A nature Interpretation Centre was constructed for 14.50 lac and named Himalayan Nature Interpretation Centre. Old office complex was converted to a rest house of the zoo with an expenditure of 4.00 lakh. Group D staff quarter repaired. A generator of 45 kwatts purchased for supply in the zoo.

16. **2001-2002** Birth of Red Panda and Himalayan Thar. Pair of Common Leopard given to Gangtok Zoo, And another pair to Itanagar Zoo in exchange for 2 female Black bears, a male clouded leopard and two male slow loris. Five old and aged leopards in the zoo were exchanged with same number of younger animals of the species from the Jaldapara Rescue Centre. A pair of Barking deer brought from Gangtok Zoo. The GB Meeting on 22.2.02 agreed upon restocking of wild population of red Panda in the Singhalila National Park by the Captive Red Pandas of Darjeeling Zoo. State wildlife Advisory Board in its meeting on 1.3.2002 cleared the Project. Hair follicles for DNA study of the Red pandas in the zoo sent to WII. Results awaited for taking further steps like arranging radio collars. Etc. The Lebong forest of 39 acres handed over to the Forest Department for management.

17. **2002-2003** A Discovery T.V. team from U.S.A for "Jeff Corwin Experience" in Animal Planet visited the zoo to cover Red panda Breeding Programme on 16.4.2002 and similar Programmes on Snow Leopard and Red Panda shown in various National channels. The Zoological Park co-ordinated the first ever complete census of wild animals in Darjeeling Hills. Project Red Panda is on the threshold of achieving its ultimate objective of releasing Zoo bred Red Pandas in the Singhalila National Park .all preparations like identification of the animals, creation of intermediary release facility for soft release, taxonomic status and genetic variability study and pre-release monitoring of habitat completed.



18. **2003-04--** Red Panda "Mini" and "Sweety" sent to Intermediary release facility on 14th November 2003. Red Panda "Neelam" and "Dolma" sent to Intermediary release facility. At Gairibas on 6th November 2003. Two Grey Peacock Pheasant acquired from Alipore Zoological Garden Kolkata in lieu of 3 Khaleej Pheasant (1:2). 3 Sambhar (1:2) received from Sanjay Gandhi Zoological Park, Patna. 2 Japanese Green Pheasants (1:1) and 3 silver Pheasant (1:2) were transferred to Sanjay Gandhi Zoological Park. Post – release monitoring of the released animal by radio-collaring them.

19. **2004-2005**- A remarkable successful breeding of the Tibetan Wolves achieved with 13 births recorded. Births of four cubs of Snow leopard. Under animal exchange three Musk deer (1:2) acquired from Nainital Zoo in lieu of two Snow leopard (1:1) and five Tibetan wolves (2:3). Five Himalayan Monal (2:3) and Five Red Jungle Fowl (2:3) acquired from Shimla Zoo in exchange of two Snow leopard (1:1) and six Tibetan wolves (3:3) from PNHZ Park. One leopard cat (0:1) and four Kaleej Pheasant (2:2) received from Sikkim zoo and two snow leopard (1:1) and four Tibetan wolf (2:2) given to them.

20. **2006-2007--** Birth of one red Panda, two birth of barking deer, 2 births of Sambhar, 5 births of Golden Pheasant, 8 births of lady Amherst Pheasant, 3 Births of silver Pheasant and 13 births of red Jungle fowl. 2 female Royal Bengal Tiger were acquired from Khutumari, Jalpaiguri Forest Division on 19.10.2006. 2 common langurs acquired from Kolkata, Forest Department on 7.3.07. 1 male golden Pheasant and 2 female Reeves pheasant brought from Kolkata zoo on 31.10.2006. 1 male and 1 female lady Amherst pheasant given to Coochbehar Forest Division. 1 male and 2 female Lady Amherst Pheasant given to Kolkata Zoo on 11.11.2006 1 male and 1 female of Silver Pheasant and Golden pheasant given to Gangtok Zoo. Workshop held on "Preparation of

Zoo Management Plan” on 9th & 10th November 2006. Regional workshop held on developing “master Education Plan for Zoos” on 7th & 8th June 2007.

21. **2008-2009**- An area of 4.645 Ha of Dow Hill Deer park have been taken over from the Kurseong Division under Directorate of Forests, West Bengal on 25.02.2009 for establishment of Satellite Zoo under Padmaja Naidu Himalayan Zoological Park, Darjeeling, the management plan for satellite zoo is incorporated in Padmaja Naidu Himalayan Zoological Park, Darjeeling.

22. **2009-2010**- PNHZ Park was granted membership by the World Association of Zoos and Aquariums (WAZA) on 14th September, 2009 at Berne. Coming under the umbrella of “WAZA” Organisation will help and support the fulfillment of the Zoological Park's Mission and in being able to continue the Protection and Conservation of Eastern Himalayan Endangered Species. Padmaja Naidu Himalayan Zoological Park Society has been dissolved in its final Governing Body Meeting held on 3/11/2009 at Kolkata. The Park as now onwards will be registered under the Zoo Authority of West Bengal. The Bengal Natural History Museum which was under the Wildlife Division I was handed over to the Darjeeling Zoo on 7th January 2010. The construction of the museum within the zoo premises is in the process and very soon will be shifted from its original location. The museum will be further upgraded and will serve the purpose of educating and entertaining the visitors. The Zoo received three pairs of Himalayan Tahr and two pair of Blue sheep from Okinawa Kids Foundation, Okinawa Japan. This was an animal exchange after more than twenty years.

23. **2010-2011**- An international exchange programme took place between Auckland Zoo, New Zealand and PNHZ Park, Darjeeling, as one zoo born male Red Panda was sent to Auckland Zoo, New Zealand and one female Red Panda was brought to Darjeeling Zoo under the Animal Exchange Programme. The digitization of the items of Bengal

Natural History Museum as handed over to PNHZ Park on 7th January, 2010 was done, by photographing each item and also providing information of the items thus making it easier to preserve, access and share in form of a book. Closed Circuit Television was installed at different locations of the park to monitor the presence and activities of people for enhanced security purposes and to keep areas under constant surveillance and also at the Conservation Breeding Centre for documenting the Snow leopards, upgradation of visitors facilities etc. Different enrichment activities for Asiatic Black bear (*Ursus thibetanus*) was done. The tree at the peripheral areas/display areas of the Park was labeled for the convenience of the visitors, students, researchers etc. with name plates which includes scientific name, local name and family. Contouring of the Zoo and Dow Hill area has been done indicating landforms and elevation, hydrography, transportation, vegetation boundaries, urban areas, buildings and a variety of other features which represents a fantastic response for educators as well. The site consisting of 5 hectares of land at Topkedara for construction of off Display Conservation Breeding Centre for Snow leopard (*Uncia uncia*) and Red Panda (*Ailurus fulgens fulgens*) was handed over to Padmaja Naidu Himalayan Zoological Park. A visitor's survey was conducted about planning to start a special educative facility that included guided tour of the zoo by zoo volunteers.

24. **2011-2012**- Padmaja Naidu Himalayan Zoological Park received 2:3 Temminck's Tragopan (*Tragopan temminckii*) and 1:3 Satyr Tragopan (*Tragopan satyra*) On 02.08.2011 from Paradise Wildlife Park, United Kingdom. Inauguration of Satellite facility at Dow Hill, Kurseong on 07.12.2011 by Shri Hiten Barman Hon'ble Minister in charge Department of Forest, Govt. of West Bengal and Dr. Rohit Sharma Hon'ble MLA of Kurseong Constituency along with other dignitaries and Forest Officials.

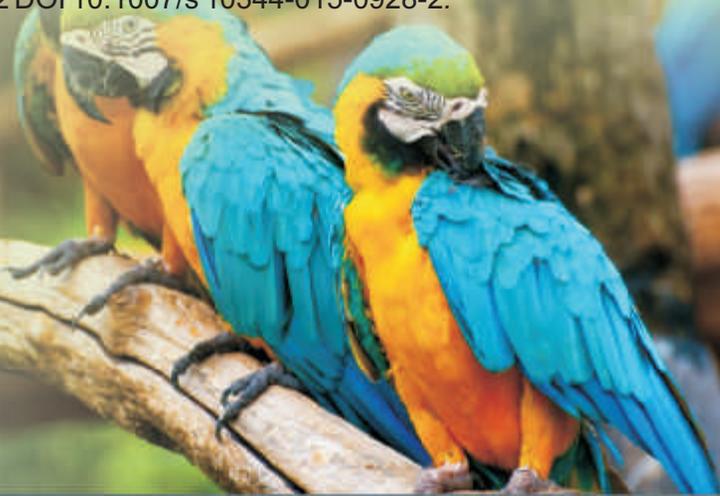
25. **2012-2013** - Acquisition of Temminck's Tragopan, Satyr Tragopan, one female snow leopard (0:1), Retirement of Store Keeper Mr. Nirmal Bhujel on 28.02.2013. Genetic analysis of captive stock of Red Panda and Snow leopard. Completion of Conservation Breeding Centre for



- Red panda and Snow Leopard at Topkey dara. Closed Circuit television in enclosures of Temminck's Tragopan and Clouded leopard. Completion of seven unit pheasant at Dowhill Pheasant breeding center at Dowhill, Kurseong.
26. **2013-2014** – Acquisition of 0:2 Snow leopard from Lodz Zoo, Germany, Exchange programme with Pt. Govind Ballabh Pant High altitude Zoo, Nainital, Alipore Zoological Gardens, Kolkota, Rajkot Zoo, Gujarat, Himalayan Zoological Park, Sikkim, Mini Zoo, Jhargram and National Zoological park, Delhi. Completion of a Short term Research Project on “Study of Snow leopard” funded by Central Zoo Authority. A new off-display Conservation Breeding Centre for Snow leopard (*Uncia uncia*) and Red Panda (*Ailurus fulgens*) at Topkedara funded by the Govt. of West Bengal and Central Zoo Authority, MoEF was inaugurated on 08.10.2013 by the Honorable Minister in Charge (Forest) Shri. Hiten Barman along with North Bengal Development Minister Shri. Gautam Deb. The inauguration was followed up by the release of a pair of Snow leopard (*Uncia uncia*) by the two ministers.
27. **2014-2015**: Construction of 2 unit pheasantry at the Conservation Breeding Centre for Pheasants and Herbivores at Dow Hill, Kurseong, Reptile house. Facilities like water tank, Research room, quarters for the staffs with adequate facilities modification of night shelters as breeding dens, etc. Participation in the 35th Annual meeting of the Conservation Breeding Specialist Group (CBSG from 30th October-2nd November 2014) and the 69th WAZA Annual Conference and technical Congress from 2nd -6th November 2014) hosted by Central Zoo Authority. PNHZP recognized and honoured for exceptional hard work in conservation breeding of endangered Himalayan species with the Earth's Hero Award. Approval of three research projects by the West Bengal Zoo Authority. Transfer of 1:1 Red Panda to Pt. Govind Ballabh Pant High Altitude Zoo, Nainital for initiating Conservation Breeding of the species. Acquisition of 1:0 Snow leopard from Jhilava Zoo, Czech Republic. Exchange programme with Assam State Zoo cum Botanical Garden, Assam, and Pt. Govind Ballabh Pant High Altitude Zoo, Nainital.
28. **2015-2016**: The Park organized “Zoo Keeper's

Training Programme” for both North and South Bengal Zoos, Rescue centers and Deer Park's under West Bengal Zoo Authority from 22nd to 26th June 2015, followed by zoo keeper's of PNHZ Park who participated the Zoo keeper's Training Programme organized by Alipore. Zoo from 21st to 23rd September 2015. New site selection and construction of two more enclosures for the snow leopard and red panda at the Conservation breeding centre for Snow leopard and Red Panda at Topkedara, 3rd Mile. Zoo Evaluation for Recognition by Central Zoo Authority, MoEF & CC, GOI. The parks along with the breeding centres were evaluated on 26th and 27th November 2015. The park was granted Recognition by Central Zoo Authority to PNHZ Park vide their No F.No. 19-20/92-CZA (325) (Vol. IX)/367/2016 dtd 03.03.2016 as **Medium Category Zoo** valid upto **20th January 2019**.

The Park completed two short term research projects “Studies on biology, breeding behavior and aviary practices for improved performance of captive Himalayan pheasants” and “Red Panda Nutrition- an Approach towards Integration” funded by Central Zoo Authority. Initiated a Research project on “**Studies on Population and Behavioural Ecology of Red Panda (Ailurus fulgens) in Singalila National Park and Neora Valley National Park, West Bengal, India with special reference to Conservation**” funded by West Bengal Zoo Authority. The Research & Education of the Park through a collaborative work with CCMB, Hyderabad published a paper on “**Molecular sex identification of Red panda (Ailurus fulgens) suitable for non invasive genetic studies- Arun Kumar, Bhupen Roka, Upashna Rai, P. Anuradha Reddy**”. The paper has been published in the European Journal of Wildlife Research. ISSN1612-4642 DOI 10.1007/s 10344-015-0928-2.



NAME OF THE DIRECTORS HOLDING CHARGE OF PNHZ PARK

Sl.	NAME	FROM	TO
1	Sri D K Dey	14/08/1958	01/08/1978
2	Sri J Sammaddar	02/08/1978	15/10/1978
3	Dr A K Putatunda	16/10/1978	09/01/1980
4	Dr R K Lahiri	10/01/1980	08/07/1984
5	Sri A B Chowdhury IFS	09/07/1984	10/09/1984
6	Sri C Chatterjee IAS	11/09/1984	07/11/1984
7	Sri G Balagopal IAS	08/11/1984	01/02/1985
8	Dr R K Lahiri	01/02/1985	25/06/1987
9	Sri D P Patra IAS	25/06/1987	07/12/1987
10	Sri V Rishi IFS	07/12/1987	27/04/1992
11	Sri N C Bahuguna IFS	27/04/1992	25/07/1994
12	Sri Gopal Krishna IAS	25/07/1994	02/09/1994
13	Sri N C Bahuguna IFS	02/09/1994	19/12/1995
14	Sri S Dhaundyal IFS	19/12/1995	07/02/1996
15	Sri N C Bahuguna IFS	07/02/1996	16/08/1998
16	Sri D Biswas IFS	17/08/1998	03/08/2000
17	Dr B R Sharma IFS	10/08/2000	06/04/2004
18	Sri S Dhaundyal IFS	06/04/2004	20/02/2006
19	Sri B R Shewa WBFS	10/02/2006	13/02/2006
20	Sri A K Jha IFS	13/02/2006	30/07/2010
21	Sri J.B. Chettri WBFS	30/07/2010	31/08/2010
22	Sri A.K. Jha IFS	31/08/2010	15/01/2015
23	Sri. P. Chand IFS	15/01/2015	Till Date

CHAPTER-1

1.1. INTRODUCTION

The Padmaja Naidu Himalayan Zoological Park Darjeeling formerly known as Himalayan Zoological Park, Darjeeling was established on 14th August, 1958. The Park is located at an altitude of 7000 ft (2150m) in Jawahar Parbat (Birch Hill), Darjeeling (West Bengal), India. In 1975 Late Smt. Indira Gandhi, then the Prime Minister of India, dedicated the Himalayan Zoological Park in memory of Late Smt. Padmaja Naidu, Ex-Governor of West Bengal and the Park was renamed Padmaja Naidu Himalayan Zoological Park. The land on which the Zoological Park is standing was acquired by the British Govt. in the late 19th Century and developed as a Public Park known as Birch Hill Park. After Independence the Govt. of India and the Govt. of West Bengal decided to develop the Birch Hill Park as Zoological Park for Conservation of Eastern Himalayan ecosystem. The Zoological Park is eminently suitable for housing and breeding of the animals from foot hills to the alpine zone as this is the optimal altitudinal zone for the purpose.

Though categorized as a small Zoo, it is one of the leading zoos of the world in terms of the objectives and its conservation vision. Padmaja Naidu Himalayan Zoological Park, (P.N.H.Z.P) also popularly known as Darjeeling Zoo, can also rightfully boast of being the only Zoo in South East Asia with one of the most successful conservation breeding programme of highly endangered Snow Leopard and Red Panda. This is the only Zoo in the world to breed the endangered Himalayan Wolf in captivity.

Today, the Zoo has a stable and genetically healthy population of Red Pandas and has released three Zoo bred Red Pandas back to the wild, more specifically in the Singallila National Park, Darjeeling, which is the natural habitat of Red Panda, holding a small Red Panda population. This is a major conservation step of Darjeeling Zoo, to supplement the dwindling population of Red Pandas in the wild with the captive stock.

This report further elaborates upon all the events of the zoo carried out in an effort to implement its objectives during the year 2014-15.

1.1.2 MISSION STATEMENT

“Assisting the National efforts for conservation of the Eastern Himalayan Ecosystem by ex-situ conservation breeding of its endangered fauna, conservation education and research to augment these conservation initiatives”.

1.2. OBJECTIVES

The Zoological Park is striving for the maintenance of ecological balance in the Eastern Himalayas with the following objectives:

- 1) Ex-situ Conservation & Captive breeding of endangered Himalayan animal species.
- 2) Educating, motivating and initiating awareness campaign among the local people as well as the visitors on the importance of conservation of Himalayan eco-system.
- 3) Initiating applied research on animal biology, behaviour and health care.

1.3. THE GOVERNING BODY

The Padmaja Naidu Himalayan Zoological Park, Darjeeling, was under the administrative control of the Department of Forests, Govt. of West Bengal and was converted into a Registered Society in January 1972 under the West Bengal Societies Registration Act. The Memorandum of Association and Regulations of the Society were altered during the year 2002-2003 which the Registrar, Firm Societies and Non-trading Corporation, West Bengal gave its acceptance to the same on 09.08.2002 vide his No. S/482 dated 09.8.2002. Again later on the Park was handed over to the West Bengal Zoo Authority a Society under administrative control of the Deptt. of Forests, Govt. of West Bengal Order No. 3842/1(13)-For/FR/O/11M-7/2002 dated 14th Sept, 2010 vide Deptt. of Forests Govt. of West Bengal Order No. 3841/1(13)-For/FR/O/11M-27/2002 dated 14th Sept., 2010. Under the West Bengal Zoo Authority, the Governing Body, consist of the following members -

1. The Chief Secretary to the Govt. of West Bengal	Chairman
2. Addl. Chief Secretary to the Govt. of West Bengal Dept. of Forest	Vice- Chairman
3. Secretary to the Govt. of West Bengal, Dept of Finance	Member
4. The Principal Chief Conservator of Forests, West Bengal	Member
5. The Principal Chief Conservator of Forests (Wildlife & Biodiversity) and CWLW, W.B.	Member
6. Member Secretary, Central Zoo Authority	Member
7. Member Secretary, Zoo Authority West Bengal	Member
8. Director, Animal Husbandary & Vet, Services, W.B.	Member
9. Director, Padmaja Naidu Himalayan Zoological Park	Member
10. Director, Zoological Gardens, Alipore, Kolkota	Member
11. Chairman, Sri Sankar Dhar, People's for Animals, Alipurduar	Member
12. Chairman, Sri Nantu Paul, Siliguri Municipal Corporation	Member
13. President, Sri Mihir Chakraborty, All Backward Class Relief & Development Mission	Member

The establishment of the Zoological Park is headed by one full time Director in the rank of Conservator of Forests. The Director, as the Principal Executive Officer of the Park is responsible for the day to day management and administration of the affairs of the Park under the general direction and guidance of the Governing Body and the Chairman. For the better control and co-ordination among different sections and works in the Zoological Park a separate section known as "Director's Personal Section" has been created and housed in the main administrative building. The Section is headed by the PA to the Director and assisted by one driver and one orderly peon. Management of the conference room/auditorium, visitor's rooms, rest house, zoo vehicle, telephones, mobile printer, scanner, Laptop, digital camera, video camera, still camera, LCD projector, Slide projector, Overhead projector, TV/VCR, Fax machine and Photo copier, computer networks etc. are other responsibilities of the sections.

CHAPTER-2

2.1. ADMINISTRATIVE SECTION

It is housed on the top floor of the administrative building next to the Director's Personal Section and is headed by the Head Clerk. The section has been further divided into two sections namely Account Section with one Accountant, one Clerk Typist, one Ticket Clerk and one Office Peon and the Establishment Section with one UDC and one LDC. The entire establishment section of the Zoological Park of 58 personnel is organized into 5 different wings and ten different sections. The total staff strength as on 31.3.2016 is stated below.

ESTABLISHMENT (As on 31.3.2016)

Sl. No.	Designation	Sanctioned Strength	Existing Strength	Vacancy	
1.	Director	1	1	0	
2.	Dy. Director	1	1	0	
3.	Asst. Director-Cum-Veterinary Officer	1	1	0	
4.	Zoo Biologist	1	1	0	outsourcing
5.	Head Clerk	1	1	0	
6.	Accountant	1	1	0	
7.	PA to Director	1	1	0	
8.	Store keeper	1	1	0	
9.	UDC	2	1	1	
10.	LDC	4	4	0	
11.	Ticket Clerk	2	1	1	
12.	Zoo Supervisor	2	1	1	
13.	Museum Supervisor	1	1	0	outsourcing
14.	Estate Supervisor	1	1	0	
15.	Research Assistant	1	1	0	outsourcing
16.	Education Assistant	1	1	0	outsourcing
17.	Library Assistant	1	1	0	outsourcing
18.	Taxidermist	1	1	0	outsourcing
19.	Laboratory Assistant	1	1	0	
20.	Veterinary Assistant	2	1	1	
21.	Asst. Zoo Supervisor	2	1	1	
22.	Asst. Estate Supervisor	2	0	2	
23.	Gate keeper	2	1	1	
24.	Driver	2	0	2	
25.	Zoo Keeper	16	9	7	
26.	Cook	2	0	2	
27.	Animal Attendant	16	13	3	
28.	Garden Attendant	14	5	9	
29.	Sanitary Attendant	10	5	5	
30.	Security Personnel	13	9	21	
31.	Black Smith cum carpenter	1	1	0	
32.	Forester	1	0	1	Dying post
33.	Veterinary Compounder	1	1	0	Dying post
34.	Clerk Typist	1	1	0	Dying post
35.	Forest Guard	4	2	2	Dying post
36.	Mali	4	2	2	Dying post
37.	Darwan	2	1	1	Dying post
38.	Office peon	1	1	0	Dying post
39.	Orderly peon	2	1	1	Dying post
40.	Sweeper	5	5	0	Dying post
	Total -				

ACCOUNTS

This subsection is responsible for all matters pertaining to revenue and expenditure. As the Zoological Park is a joint venture of Govt. of India and Govt. of West Bengal, the Park is receiving maintenance budget from the Ministry of Environment and Forests, Govt. of India and Deptt. of Forests, Govt. of West Bengal. The Park is still receiving some maintenance funds from the Deptt. of School Education, Govt. of West Bengal, though the same has been very irregular.

Receipts & Expenditure of the Zoological Park (Society) during the Year 2015-16

Sl. No.	Source of Fund	Receipts in Rs		Expenditure in Rs	
		Non-plan	Plan	Non-plan	Plan
1	Dept Deptt. of Forests Govt. of West Bengal	7,73,99,000.00	20,00,000.00	77, 399,000.00	20,00,000.00
2	Zoo Authority of West Bengal undeunder Admn Control of Deptt. of Forests, GOWB	-			5.62,000.00
3	Central Zoo Authority, Govt. of India	-	5.62,000.00		
4	Ministry of environment & Forests, Govt. of India				
5	Gate fee Collection a. Zoo Ticket b. Zoo Camera c. Animal Adoption d. Guest House e. Souvenir Shop f. Fees from rental stalls	1,12,10,850 61,5560 1,50,000 10150 14379 121200			1,12,10,850 61,5560 1,50,000 10150 14379 121200
<u>TOTAL</u>					
<u>GRAND TOTAL – Rs. (Receipt)</u>					

ANIMAL SECTION

Ex-situ conservation breeding of targeted endangered animal species is the primary objective of the Padmaja Naidu Himalayan Zoological Park. The Zoo has done excellent works with planned conservation breeding of some of the highly endangered animal species of the Himalayas like Red Panda and Himalayan Wolf.

Breeding was observed in the year 2015-16 in respect of Grey Peacock Pheasant, Kalij Pheasant, Temminck's Tragopan, Asian Palm Civet, Markhor, Blue Sheep, Himalayan Tahr, Red Panda and Himalayan Wolf.

Death was also not uncommon. In the year 2015-16 **deaths** were recorded 25 in mammals, **22** in pheasants and **9** in Reptiles. There has been considerable improvement in infant mortality of both mammals and pheasants due to constant medical supervision and Zoo keeper alertness.

2.3 DETAILS OF BIRTHS, DEATHS, ADDITION & DEDUCTION OF ANIMAL THROUGH EXCHANGE PROGRAMME.

BIRTHS OF MAMMALS / PHEASANTS AT PNHZ PARK, DARJEELING

Sl. No.	Name of the Animal	Male	Female	Unknown
Mammals				
1	Asian Palm Civet	0	0	3
2	Markhor	1	1	0
3	Blue Sheep	2	0	0
4	Himalayan Tahr	1	0	1
5	Red Panda	3	1	0
6	Himalayan Wolf	0	0	1
Pheasants				
1	Grey Peacock Pheasant	0	0	1
2	Kalij Pheasant	0	0	3
3	Temminck's Tragopan	0	0	8
4	Silver Pheasant	0	0	1
5	Reeve's Pheasant	0	0	3
6	Red Jungle Fowl	0	0	21

DEATH OF MAMMALS / PHEASANTS/REPTILES AT PNHZ PARK, DARJEELING

Sl. No.	Name of the Animal	Sex	Number	Cause of Death	Date
Mammals					
1	Red Panda	M	1	Due to cardiac arrest due to excessive formation of gas	11.04.2015
2	Red panda	M	1	Death may be due to cardiac arrest due to old age and deteriorating health condition due to paralytic hind quarters.	19.04.2015
3	Himalayan Wolf	F	1	Death may be due to cardiac arrest due to old age with severe damage of the kidney of both side.	29.04.2015
4	Himalayan Tahr	F	1	Death may be due to difficulty in parturition due to old age	21.05.2015
5	Markhor	F	1	Death may be due to Dystocia due to old age.	23.05.2015
6	Himalayan Wolf	M	1	Death may be due to respiratory failure due to old age	23.06.2015
7	Snow Leopard	M	1	Death may be due to multi organ failure possibly due to cancerous nodule formation in the vital organs.	26.05.2015
8	Snow leopard	M	1	Death may be due to respiratory failure due to emaciated lungs due to old age.	29.05.2015
9	Blue Sheep	F	1	Death may be due to cardiac arrest probably due to shock	26.07.2015
10	Himalayan Tahr	F	1	Death may be due to indigestion, gas formation due to the fur ball of gunny bag threads present in large amount in the stomach.	31.07.2015
11	Snow leopard	F	1	Death may be due to water accumulation in the pericardial sac of the heart as well as hemorrhagic lungs causing respiratory distress leading to death. (Confirmatory diagnosis attached as Annexure I)	14.09.2015
12	Markhor	M	1	Death may be due to water accumulation in the pericardial sac and congestion of the lungs. Accumulation of water also seen in the abdominal cavity.	25.09.2015
13	Markhor	F	1	Death may be due to fluid accumulation in the lungs, heart (pericardial sac) as well as in the abdominal cavity.	06.10.2015

DEATH OF MAMMALS / PHEASANTS/REPTILES AT PNHZ PARK, DARJEELING

Sl. No.	Name of the Animal	Sex	Number	Cause of Death	Date
Mammals					
14	Blue Sheep	M	1	Death may be due to injury in the neck and chest region resulting in hemorrhagic lungs causing asphyxia and death.	12.10.2015
15	Jungle cat	M	1	Death may be due to internal bleeding in the anal rectum lining swelling and infection in the anal passage.	25.10.2015
16	Himalayan Palm Civet	M	1	Death may be due to old age with slightly affected liver and lungs.	02.01.2016
17	Himalayan Wolf	F	1	Death may be due to dashing in the left side of the body causing excessive bleeding in the thoracic cavity, abdominal cavity with heart emaciated causing death.	22.01.2016
18	Jungle cat	F	1	Death may be due to hypothermia as indicated by the shrinkage of lungs which was pale in some region	23.01.2016
19	Snow leopard	M	1	Death may be due to injury in the chest region causing internal hemorrhagic I in the lungs causing asphyxia and death.	01.02.2016
20	Himalayan Wolf	M	1	Death may be due to chronic and resistant skin infection which led to secondary infection of lungs causing death	29.03.2016
21	Himalayan Goral	M	1	Death may be due to acute pneumonia with excessive gas formation causing cardiac arrest.	22.06.2015
22	Himalayan Goral	M	1	Death may be due to old age as per physical parameters heart congestion off depleted respiratory rate due to hemorrhagic lungs.	31.07.2015
23	Himalayan Goral	F	1	Death may be due to acute gastritis with probability of toxicity causing gas formation.	03.08.2015
24	Barking deer	U	1	Death may be due to injury to the chest region affecting the lungs and heart	12.09.2015
25	Barking deer	M	1	Death may be due to infighting	02.11.2015

DEATH OF MAMMALS / PHEASANTS/REPTILES AT PNHZ PARK, DARJEELING

Sl. No.	Name of the Animal	Sex	Number	Cause of Death	Date
Pheasants					
26	Reeve's Pheasant	F	1	Death may be due to internal bleeding and injury at the thoracic region	02.04.2015
27	Reeve's Pheasant	U	1	Death may be due to ill nursing	10.06.2015
28	Silver Pheasant	F	1	Death may be due to damage in vertebrae during flight	15.06.2015
29	Reeve's Pheasant	U	1	Death may be due to ill nursing	25.06.2015
30	Reeve's Pheasant	U	1	Death may be due to ill nursing	28.06.2015
31	Lady Amherst	F	1	Death may be due to cardiac arrest	01.07.2015
32	Lady Amherst	F	1	Death may be due to liver enlargement mostly due to formation in the lobes of the liver	25.09.2015
33	Lady Amherst	M	1	Death may be due to injury in the chest region as internal bleeding seen.	26.09.2015
34	Red Jungle Fowl	F	1	Death may be due to infighting with damage to right side of the body	23.04.2015
35	Chick of Temminck's tragopan	U	1	Ill nursing	05.06.2015
36	Chick of Temminck's tragopan	U	1	Ill nursing	08.06.2015
37	Temminck's tragopan	F	1	Death may be due to cardiac arrest	23.06.2015
38	Chick of Temminck's tragopan	U	1	Ill nursing	24.06.2015
39	Chick of Temminck's tragopan	U	1	Ill nursing	26.06.2015
40	Grey Peacock Pheasant	F	1	Predator attack	09.08.2015
41	Grey Peacock Pheasant	M	1	Predator attack	09.08.2015
42	Temminck's tragopan	M	1	Death may be due to fluid accumulation in the pericardial sac leading to cardiac arrest	30.09.015
43	Kalij Pheasant	F	1	Death may be due to injury in the chest region and neck region as internal bleeding seen in the thoracic and abdominal region.	28.03.2016
44	Red Jungle Fowl	U	1	Death may be due to Ill nursing	30.03.2016
45	Red Jungle Fowl	U	1	Death may be due to ill nursing	30.03.2016
46	Golden Pheasant	F	1	Death may be due to infighting	30.3.2016

DEATH OF MAMMALS / PHEASANTS/REPTILES AT PNHZ PARK, DARJEELING

Sl. No.	Name of the Animal	Sex	Number	Cause of Death	Date
Pheasants					
47	Reeve's Pheasant	M	1	Death may be due to damaged liver and lungs condition developed due to the tumor mass at the back and also a case of old age	28.03.2016
Reptiles					
48	Star Tortoise	U	1	Death may be due to old age	12.04.2015
49	Star Tortoise	U	1	Death may be due to old age	18.04.2015
50	Star Tortoise	U	1	Death may be due to old age	11.05.2015
51	Star Tortoise	U	2	Death may be due to old age	22.05.2015
52	Indian Sand Boa	F	1	Death may be due to Hypothermia	23.05.2015
53	Star Tortoise	U	1	Death may be due to old age	12.06.2015
54	Star Tortoise	U	1	Death may be due to old age	14.06.2015
55	Star Tortoise	U	1	Death may be due to old age	25.06.2015
56	Star Tortoise	U	1	Death may be due to old age	28.06.2015



VETERINARY SECTION

The veterinary hospital is housed in the ground floor of the hospital building. The hospital is equipped with almost all the equipments required for the up keeping of the health and maintenance of the animals in the zoo. The section is headed by Veterinary Officer who is assisted by a Compounder and a laboratory technician. The treatment cards, outpatient register, In patient register, Post mortem register and report, Laboratory analysis register, Stock register of medicines/instrument etc. are maintained and updated.

Animal health care receives utmost attention in the zoo. The Veterinary Doctor assisted by one Compounder and Laboratory technician carries out day to day checkups and treatments of the animals. The section

Daily diet of meat like beef, mutton, chicken along with dry ration etc. is inspected by the Veterinary Officer for their quality and quantity on daily basis.

All the enclosures, cages are thoroughly washed with disinfectants early in the morning before the zoo is opened for the day to the visitors. Filtered water and blowers are provided to every animal. As part of the animal health care, deworming, testing of stool, urine and blood samples of all the animals are done on regular basis

No major illness or outbreaks witnessed by the park during this annual. Regular deworming and vaccination was done. The section also assisted the Forest Department in conducting post moterm of Common Leopard and Barking Deer.

Date	Species	Sex	Area	Remark
11.01.2016	Himalayan eagle (Aquila sp)	U	Teesta range	Treated and released back
18.02.2016	Common leopard (Panther pardus)	M	Takdah cantonment clud area	Treated and released back to the wild
23.02.2016	Common leopard (Panther pardus)	M	Sonada	Treated at the rescue centre at Sonada but the animal died on 03.03.2016

2.6.1. Dis-infection programme

- 1) As a part of daily programme, the concrete and the wooden floor are cleaned with Savlon. Feeding and watering trough are cleaned with Kmn04 @ 2gm/ltr. Water. The drains are cleaned thoroughly by the Zoo Keepers. The daily Dis-infection works are completed before the Zoo opens for the public in the morning.
- 2) As annual programme the floors, rods and wires were sterilized with blow torch, once during rainy season. The walls of the cages were white washed and the rods, wires were painted.

Due attention is also given for ensuring a good health care to the Zoo staffs. All the Zoo keepers and other field staffs who are in direct and indirect contact with the zoo animals are vaccinated against Rabies and Tetanus to control communicable diseases.

2.7. OTHER IMPORTANT SECTIONS

2.7.1. COMMISSARY SECTION

The Zoological Park has a well established Commissary section with dry ration store, meat house, modern Kitchen using LPG. The Commissary Section weighs all diet materials they receive in the weighing machine. Meat and fruits if required early the next day are kept in deep freezer. All dry rations are stored in polydrums. All

the animal diets are acquired by annual tenders. All the diet items are checked for quality and quantity by the Veterinary Officer before issuing the same to the animal section on proper challan. One full time storekeeper and one trained cook constitute the establishment of the Commissary section.

2.7.2 Education

The Education Section is headed by the Scientific Officer. The section is in-charge of regular school visits, visit by the college and university students including forest officials. The section is in-charge of publication of pamphlets and books concerning zoo issues and also updating the sinages of different kinds.

The Park celebrated World Environment Day on 5th June 2015. The theme for this year was “**Greening the Blue**”. Different primary schools from Darjeeling were invited to participate in the programme to promote awareness on the importance of trees and biodiversity and its impact on the environment and our lives in general. Sit and Draw competition and Quiz competition was organised for the students from Grade I-IV. Four school with a total of twenty two students participated in the programme.

The winner of the sit and Draw competition were as follows:

First prize : Sneha Tamang, Municipal Girls Primary School.

Second Prize : Alishan Rai, Municipal Girls Primary School

Third Prize : Ankit Sharma, Swami Vivekananda Primary School

Swami Vivekananda Primary School was declared winner in Inter Primary School Quiz Competition.

SCHOOL VISIT 2015-16

Sl. No.	Date	Name of School/Training Institute /Colleges/Universities	Number of Students	Number of Teachers	Educational Incentives
1	30.03.2015	Carmel High School, Giddha Pahar Kurseong (Class II & III)	28	3	Visit to Zoo and interaction.
2	31.03.2015	Carmel High School, Giddha Pahar Kurseong (Class VI)	22	3	Visit to Zoo and interaction.
3	08.04.2015	Assembly of God Church, School	102	4	Visit to Zoo and interaction.
4	24.04.2015	Loreto Convent, Darjeeling	123	10	Visit to Zoo and interaction.
5	08.05.2015	Namchi Government College, Kamrang South Sikkim	14	03	Visit to Zoo and interaction.
6	13.05.2015	Uttarakhand Forestry Training Academy, Haldwani, Uttarakhand	40	2	Visit to Zoo and interaction.
7	19.05.2015	St. Antony School, Darjeeling	40	5	Visit to Zoo and interaction.
8	20.05.2015	Madhyamik Siksha Kendra	44	4	Visit to Zoo and interaction.
9	23.05.2015	Thurbo High School, Darjeeling	9	2	Visit to Zoo and interaction.
10	27.05.2015	Municipal Boy's Primary School	40	3	Visit to Zoo and interaction.
11	27.05.2015	Central Academy for SFS, Burnihat, Assam	34	1	Visit to Zoo and interaction.
12	28.07.2015	Forest Range Officer's for the year 2015-16 Central Academy for State Forest Service, Burnihat, Assam	39	1	Visit to Zoo and interaction.

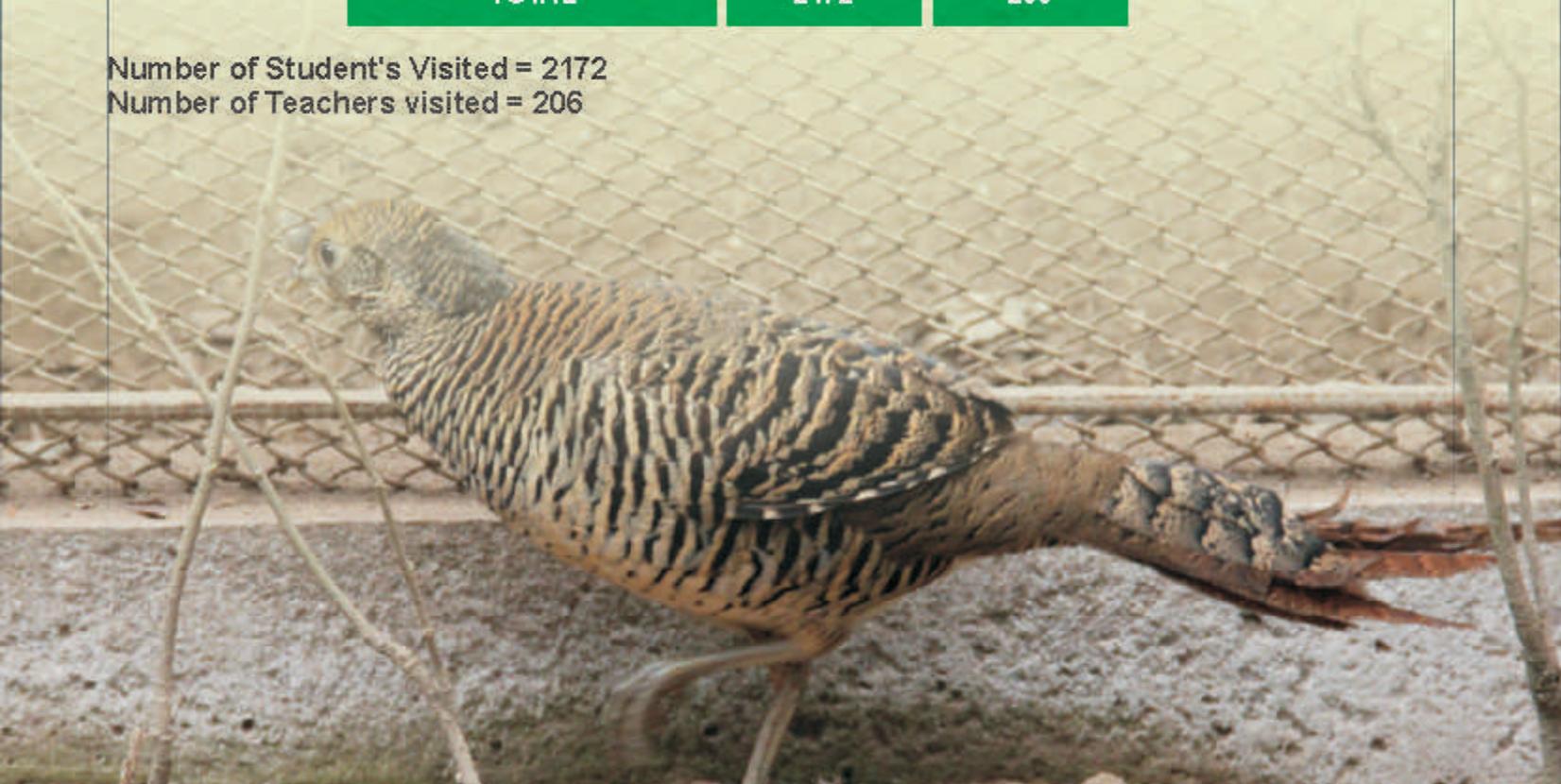
SCHOOL VISIT 2015-16

Sl. No.	Date	Name of School/Training Institute /Colleges/Universities	Number of Students	Number of Teachers	Educational Incentives
13	04.08.2015	104th Batch Dr/Fr Trainees of West Bengal Forest School, Dow-hill, Kurseong	18	3	Visit to Zoo and interaction.
14	25.08.2015	Goethals Memorial School, Kurseong	110	6	Visit to Zoo and interaction.
15	11.09.2015	Participants of Wildlife Trade workshop	35	2	Visit to Zoo and interaction.
16	15.09.2015	Goethals Memorial School, Kurseong	38	2	Visit to Zoo and interaction.
17	15.09.2015	Border's Guard, Bangladesh	25	3	Visit to Zoo and interaction.
18	26.09.2015	57th Session of Forest Guard's Trainees, Forestry Training Centre, Rajabhatkhawa	29	2	Visit to Zoo and interaction.
19	29.09.2015	St. Teresa's Higher Secondary School, Darjeeling	450	15	Visit to Zoo and interaction.
20	09.10.2015	The Assembly of God Church School, Darjeeling	126	06	Visit to Zoo and interaction.
21	09.10.2015	Crayon's Preparatory School, Darjeeling	60	07	Visit to Zoo, lecture and interaction.
22	14.10.2015	State Forest Service and Senior Range Officer's Course, 2015	35	01	Visit to Zoo, lecture and interaction.
23	16.10.2015	Glendale Academy, T.N. Road, Darjeeling	40	06	Visit to Zoo, lecture and interaction.
24	04.11.2015	R.C. Mission, Maney Bhanjyang, Darjeeling	36	07	Visit to Zoo, lecture and interaction.
25	05.11.2015	State Environment and Forest Training Institute, Nagaland	20	04	Visit to Zoo, lecture and interaction.
26	06.11.2015	Sunshine Academy, Soom 2nd Division, Darjeeling	23	07	Visit to Zoo, lecture and interaction.
27	07.11.2015	Mother's Nursery School, Darjeeling	65	07	Visit to Zoo, lecture and interaction.
28	20.11.2015	Notre Dame School, Kinjalay Bazar	49	5	Visit to Zoo, lecture and interaction.
29	24.11.2015	Simana for Basic School, Sukia	20	06	Visit to Zoo, lecture and interaction.
30	24.11.2015	Majidhura Primary School, Sukhia, Darjeeling	10	04	Visit to Zoo, lecture and interaction.
31	25.11.2015	E.F.R.C, Kurseong	13	01	Visit to Zoo, lecture and interaction.

SCHOOL VISIT 2015-16

Sl. No.	Date	Name of School/Training Institute /Colleges/Universities	Number of Students	Number of Teachers	Educational Incentives
32	01.12.2015	Anulia High School	54	14	Visit to Zoo, lecture and interaction.
33	02.12.2015	Sai Krishna Vidhya Academy	70	07	Visit to Zoo, lecture and interaction.
34	05.12.2015	Zion Academy, Sumbuck	40	08	Visit to Zoo, lecture and interaction.
35	07.12.2015	Divya Jyoti Academy, Sonada	30	07	Visit to Zoo, lecture and interaction.
36	09.12.2015	Badamtam Jr. Basic School, Darjeeling	23	07	Visit to Zoo, lecture and interaction.
37	18.12.2015	West Bengal Forest School, Dowhill, Kurseong	18	02	Visit to Zoo, lecture and interaction.
38	29.12.2015	Patikabari High School	50	10	Visit to Zoo, lecture and interaction.
39	20.01.2016	Jubilant Elite Academy	16	04	Visit to Zoo, lecture and interaction.
40	21.03.2016	Telangana State Forest Academy	69	1	Visit to Zoo, lecture and interaction.
41	20.03.2016	Nabil's Memorial School, Jorthang	38	5	Visit to Zoo, lecture and interaction.
42	30.03.2016	Municipal Boys Primary School	27	6	Visit to Zoo, lecture and interaction.
TOTAL			2172	206	

Number of Student's Visited = 2172
 Number of Teachers visited = 206



2.7.4 **Research**

The update of animal records such as History cards, Stud books, and others were done using the International Species Information System. Projects on Study of soil micro- flora and micro-fauna of the enclosures of Padmaja Naidu Himalayan Zoological Park, Darjeeling, Dow Hill and Topkedara were initiated for which a laboratory was set up. The laboratory was equipped with a laminar flow, refrigerator, incubator, instruments and chemicals etc. The project on *Population and behavioural Ecology of red Panda Ailurus fulgens of Singalila National Park and Neora valley National Park, West Bengal, India with special reference to Conservation was initiated and field work is in progress.*

MEETINGS AND TRAINING ATTENDED BY ZOO OFFICERS& STAFF

Workshop and Training Programme attended by Zoo Official and Staff

Sl. No.	Name of the training	Name of the person	Place	Period
1	Zoo Keepers Training Programme	Shri. K.P. Rai, Zoo Keeper Shri Amar Chettri, Zoo Keeper	Zoological Garden, Alipore	21 st to 23 rd September 2015

TRAINING/WORKSHOP ORGANISED:

Name of the Training: "Zoo Keeper's Training Programme"

Date and Venue:

In the 10th meeting of the Governing Body of the West Bengal State Zoo Authority held on 28th January 2015 the proposed training programme for the Zoo keepers in Zoological gardens for both North and South Bengal was approved by the Governing body. The training-workshop took place from 22nd to 26th June 2015 at Padmaja Naidu Himalayan Zoological Park, Darjeeling.

Training Programme and the Team:

The members of the training team were mr. Piar Chand IFS, Director, Dr. Uttam mani Pradhan, veterinary Officer, Mr. Shiromani Syangden, Estate Officer, Mr. Purna Ghishing, Animal Supervisor, Mr. Sudhir Ghatraj , Ranger, Ms. Upashna rai, Zoo Biologist, Mr. Bhupen Roka, Education Assistant, Ms. Pranita Gupta, Research Scholar and Mr. Aditya Mitra, Research Scholar.

Agenda

The training team agreed to a draft agenda prior to the training- workshop which was approved by the participants.

Day 1:

Opening and Introduction

Introduction to Zoos in India: History of Zoos, category of Zoos, Role in Conservation.

Zoo Keeping and the Challenges Ahead

Visit to the Park and Old Conservation Breeding Centre Snow leopard and Red Panda.

Day 2:

Lectures

Management of carnivores in Captivity

Environment Enrichment techniques for captive animals.

Environmental Enrichment for Birds and Pheasants

Feeding Enrichments in Captive animals.

Hands on training (Preparing enrichment items)

Day 3

Visit to New Conservation Breeding Centre for Snow leopards and red panda and |Conservation Breeding Centre for Pheasants and herbivores.

Day 4

Lectures

- Types of diseases, treating and taking care of diseased animals
- Importance of Hygiene in captive animals.
- Role of zookeepers in enclosure designing for captive animals
- Disaster management and emergencies in zoos.
- Practical demonstration (Animal restraint and animal handling during treatment)

Day 5

- Importance of feeding in captive Animals.
- Record keeping and its importance
- Animal Transportation and Exchange Programmes.
- Keeper's talk
- Valedictory.

Participants

The training workshop was attended by nineteen zoo keepers from various zoos, rescue centres and parks

Sl. No.	Name of the Zoo	No. of Candidate
1	Alipore Zoological Park, Kolkata	2
2	Sunderban Wild Animals Park, Jharkhali	0
3	Paschimanchal Zoological Park, Burdawan	2
4	Bardhaman Zoological Park, Burdawan	2
5	Rasikbil Mini Zoo, Coohbehar	2
6	Surulia Mini Zoo, Purulia	1
7	Garchumuk Deer Park, Howrah	1
8	South Khaibari Rescue centre, Alipurduar	1
9	Adina Deer park, Maldah	0
10	Kunjanagar Nature Park, Alipurduar	1
11	Kumari Kangsabati Deer Park, Bankura	2
12	Padmaja Naidu Himalayan Zoological Park	5
TOTAL		19

The training –workshop began with an inaugural function where the Director and the senior officers of the park lighted the diya followed by a welcome address by the Director. The director during his address highlighted the importance and the need of such a training programme. The director's address was followed by a word or two from the senior officers of the park regarding the training programme. The participants were then asked to introduce themselves. After the inaugural function everyone gathered for a photo session followed by tea. The plenary session began at 12:00 noon where Mr. Bhupen Roka, Education Assistant of the park in his lecture highlighted about a ***zoo, history about the zoo, concept of modern zoos, aims and objectives of zoos and conservation breeding programmes***. After lunch break Ms. Upashna Rai, Zoo Biologist presented a lecture on ***Zoo keeping as a profession and the challenges that lie ahead for the zookeepers and the profession***. The participants were then taken for a visit to the display area of the Park and the Conservation breeding centre. The participants during their visit were shown various species of high altitude and were also made aware as to how a collection plan of the zoo should be planned. The other important facilities like signages (Informative and directional), drinking water, resting area, toilets, guides etc were also made aware to the participants. In the breeding centre the participants were given information as to why a Conservation Breeding centre is required and management practices done for red panda and snow leopard were shown. The day ended with a discussion with the participants regarding the day's event and also allowing the participants to express their views and comments. The second day lectures focused on Animal Enrichment Programme. Ms. Rai in her presentation highlighted adverse effect of captivity, making enrichment for the captive animals a necessity, what is it, importance, goals to be achieved, types of enrichment, who should be enriched, documented effects and its pitfalls. Mr. Aditya Mitra, Research Scholar of the park and Mr. Bhupen Roka Education Assistant in their lectures highlighted about the environmental enrichment for birds and pheasants and feeding enrichment of wild animals in captivity respectively. In the second half the trainees were divided into two groups to design enrichment for the animals in the breeding centres and the display area. On the third day of the training the trainees were taken for a visit to the two Conservation Breeding centres at Topkedara, 3rd Mile and Dow Hill, Kurseong. At the facilities the trainees were given a lecture on ***why a Conservation breeding centre is required, what are the aspects that needs to be considered while developing a breeding centre and the modern facilities to be made available for better captive management of the species concerned***. In the Pheasant and herbivore breeding centre a practical demonstration was given on- ***Pheasant capture, proper handling of the pheasant, ringing and ways to assess the health status of the pheasant. The seven and the two unit aviaries, egg incubation, chick rearing and medical treatment attached to these aviaries were shown to the trainees and the significance of having such a compact facility was also explained***. On the fourth day Dr. Uttam mani Pradhan, Veterinary Officer delivered a lecture on ***signs of animal sickness, clinical and preventive diseases including preliminary treatments that can be done by the zookeepers***. Dr. Pradhan also talked about the ***hygiene in captive animals***. The lecture was followed by useful information on ***enclosure designing for captive animals*** by Mr. Shiromani Syangden, Estate officer of the Park. On the later part of the day Dr. Uttam Mani Pradhan and the veterinary team gave a field demonstration on ***animal restraint, emergency treatments on the field, ways to maintain hygiene in the enclosures, nightshelters and surrounding areas***. On the last day Ms. Rai delivered a lecture on Record keeping and its significance followed by Mr. Mitra in his lecture giving information on record keeping of birds and pheasants. The final presentation highlighted on Animal transportation and exchange programmes. Reading material prepared by the Park and West Bengal Zoo Authority was also distributed to the participants for future reference. A keeper's talk was organised at the end followed by a valedictory session. Certificate and mementos were distributed to the participants. The fee- back forms received from the participants were analyzed. Maximum of the participants were of the opinion that the training programme have been very useful for them and they shall adopt certain feasible methods in their park. They have also expressed that such training programmes should be organised in future as well.

Completed a short term research project on **“Studies on biology, breeding behaviour and aviary practices for improved performance of captive Himalayan Pheasants** funded by Central Zoo Authority. The project was initiated on

Initiated a research project funded by West Bengal Zoo Authority on:

- 1) Studies on Population and Behavioural Ecology of Red Panda (*Ailurus fulgens*) in Singalila National Park and Neora Valley National Park with special reference to conservation.
- 2) **Publications:**
 1. Arun Kumar, Bhupen Roka, Upashna rai, P. Anuradha Reddy. **Molecular sex identification of red panda (*Ailurus fulgens*) suitable for non invasive genetic studies.** European Journal of Wildlife Research. ISSN 1612-4642 DOI10.1007/S10344-01`5-0928-2.

Zoo Interns: Following are the Zoo Interns for the year 2015-2016

Sl. No.	Name of the Intern	School/College/University/ Other Institution	Country	Duration of Internship	Area of Work
1	Miss. Deepshika Shah	International Baccalaureate 1 st year Canadian International School, Banglore	India	25.06.2015- 03.08.2015	Captive management of animals at PNHZ Park
2	Mr. Samir Thapa	M.Sc. Zoology Darjeeling Government College, Darjeeling		20.09.2015 - 20.10.2015	Parasitic Study of captive Animals (mammals & Pheasants)
3	Mr. Akash Thapa	1 st Year, Botany (Hons.), St. Joshep's College, Darjeeling		24.009.2015	
4	Mr. Palden Tamang	1 st Year, Botany (Hons.), St. Joshep's College, Darjeeling			
5	Mr. Himanshu Umesh Damle	4 th year B.V.Sc. & A.H. Bombay Veterinary College, Mumbai		3.01.2016- 16.01.2016	High Altitude herbivore hair key
6	Mr. Supriyo Dalui	4 th Year, Zoology (Hons.) University of Calcutta		05.10.2015-18.05.2015/ 13.03.2016-22.03.2016	Review work on Project Snow leopard

The Park provided them with all the necessary assistance required by them including a certificate and remunerations for their service to the Park.

2.7.5. GARDEN SECTION

The Garden Section under the supervision of the Estate Officer was given proper attention. For proper care of the orchids, succulent and ornamental plants, glass house was constructed which housed a store room at the ground floor. Proper storage room has also been created for storing of manure throughout the year in the Zoological Park. Nursery has been made for seasonal flowering plants. All the peasantries, lesser cats enclosures and Red Panda enclosures have been carpeted with grass to give a natural look. Regular infilling and new plantation is done to provide suitable habitat for the zoo animals. The work has been outsourced by way of tender, to technical persons. This was warranted by old age and death of Malis.

The trees at the peripheral areas/display areas of the park were labeled for the convenience of the visitors, students, researcher's etc with name plates which includes scientific name, local name and family.

2.7.6. SANITATION SECTION

Sanitation in the Zoological Park has been given due importance. On one hand enclosures are being cleaned with disinfectants every morning and on the other hand cleaning of the debris as well as remains of the animal waste and left over of animal feeds are done every day. In the mean time, all the left out bones of the animal's feeds, excreta, of the animals is being burnt regularly in the burning shades using diesel and fire wood. A new electric

incinerator has been installed at this park with the Central Zoo Authority funding in the last year for safe disposal of carcass and other waste.

2.7.7. SECURITY SECTION

The section under the supervision of the Estate Officer looks after the security of the Zoological Park both day & night. The main area of the Zoological Park has been encircled by 7 feet high concrete boundary wall with coiled concertina wire on top. This has stopped the fear of encroachment. Private security personnel have been engaged in addition to the regular forest guards and they have also been provided with Khukuri/lathis and torches.

CHAPTER – 3

3.1. PROJECT SNOW LEOPARD

Extremely threatened due to hunting, killing, IUCN (2006) lists as endangered (EN-C2a (i)) on the IUCN Red List and IWPA lists it as a Schedule I species. CITES includes it as an Appendix I species. Population estimated below 2500.

Snow leopard is an extremely beautiful animal distributed along the habitat scattered throughout a vast region surrounding the Central Asian deserts and plateaus ranging from Afghanistan to Uzbekistan. Throughout most of its range, snow leopards are associated with arid and semi arid shrub-land, grassland or steppe. The species is generally found at elevation between 3000m -4600m, although they are known to go above 5500 m in the Himalayas. Steep terrain broken by cliffs, ridges, gullies and rocky outcrops is preferred, although in certain parts like Mongolia and Tibet plateau they can be found in relatively flat country. In India, snow leopard is distributed in the Himalayan chain from Kashmir to Sikkim, northwards their territory extends into Tibet, Central Asia and the Altias in the region of stupendous rock and cliff above the tree-line some 12,000 -13,000ft (3660-3965m) above sea level.

Hunting of the Snow leopard is one of the major threats to the species. Snow leopards have been hunted out of many of the areas of the high Central Asian Mountain. There is a demand for snow leopard bone from the Chinese medicine trade. Garments of Snow leopard fur were once highly priced in fashion world and although no longer in International trade, fur coats and novelty furs have seen for sale in shops throughout China, Taiwan and Mongolia.

The species have become extremely rare in many parts of its native habitat. In India, where snow leopards occur on the southern slopes of the Himalayas. The species is listed as endangered under the Wildlife Protection Act (1972). In this respect PROJECT SNOW LEOPARD (PSL), a flagship species programme to strengthen wildlife conservation in the Himalayan high altitude was launched.

PNHZ Park started work on captive breeding project of this rare species in the year 1983. Apart from a number of *insitu conservation efforts*, a *global captive breeding programme* is in place. Darjeeling zoo has been a part of this initiative since 1986.

Experts Dr. Ingo Rieger and D. Walzthoeny from USA inspected the site in July 1983 and gave their approval.

Site selection for off- display conservation breeding centre for snow leopard is the North- Western corner of Jawahar Parbat (Birch Hill) at an altitude of 27 degree and longitude 88 degree East. Altitude is 6900ft.

Founder stock of snow leopard at PNHZ Park (1986-2015)

Sl. No.	Name of the animal	Sex	International Stud book Number	Acquired from
1	Kashi	F	1005	Zurich
2	Vishna	M	620	Helsinki
3	Persia	F	697	Toledo Zoo
4	Hank	M	1059	Litterock
5	Quizil	M	1472	Zurich
6	Quilla	F	1473	Zurich
7	Quetta	F	1474	Zurich
8	Tyson	M	1850	Hubstrand . Sweden
9	Neeta	F	2228	Leh
10	Meeta	F	-	Srinagar

A total of fifty six snow leopard births have been recorded in the park. The table below depicts the birth at an interval of every five years and their survivality.

SEX RATIO/TOTAL BIRTH							
YEAR	M	F	U	TOTAL BIRTH	M	F	TOTAL SURVIVALITY
1986-1991	0	2	2	4	0	0	0
1992-1996	6	3	1	10	1	2	3
1997-2001	8	5	0	13	1	2	3
2002-2006	11	7	1	19	5	4	9
2007-2013	6	4	0	10	0	1	1
	31	21	4	56	7	9	16

*Wild caught founder ("Meeta" 227) did not make any contribution to the breeding programme.

Padmaja Naidu Himalayan Zoological Park in 2003 had 18 Snow leopards (9:9), one of the largest captive population, in a single zoo, in the world.

Next step was to have at least 4-5 stable captive population of snow leopards at different high altitude zoos in the country, before any release/restocking in the wild can be contemplated. In 2004, a pair each of snow leopard was sent from Darjeeling zoo to Himalayan Zoological Park, Gangtok, Pandit Govind Ballabh Pant High Altitude Zoo, Nainital and Himalayan Nature Park, Kufri, Shimla to start subsidiary snow leopard breeding centers in these Himalayan zoos.

Inbetween2004-2013threeindividualsdiedwithonecubsurvivalthatskewedtheoptionforbreedingleavingthe captive stock with ten individuals and with limited breeding pairs. The analysis done so far regarding the populationmanagementofsnowleopardinthefacilitycameupwiththefollowingrecommendations:

- ScientificmanagementoftheBreedingprogrammeincludingdevelopmentof husbandryprotocols.
- Inordertomaintainthegeneticvariabilityandtoprovidewithlargerbreedingoptionsanimalexchangeshouldbe made regularly in consultation with the International Stud book keeper. Individuals > 16 years should not be consideredforbreeding.
- Demographicandgeneticanalysismandatoryofcaptivestock.
- Newerbreedingfacilitiestobeestablished.

Basedontherecommendations

Ashorttermresearchonthe“**StudyofSnowleopards**”fundedbyCentralZooAuthoritylookedintodeveloping ex-situ husbandry aspects particularly to look into persistent problems that existed in the breeding programme majorly **cub mortality**and **brittle bone diseases**. The research work proved to be beneficial and provided recommendations for creating appropriate facilities for breeding, cub care and their survivality. Adopting these methodsthe3cubsbornin2012and2014survived.Besidesthistheresearchworkhelpedingivinginputsduringthe establishment of the new breeding centre for the snow leopards where the night shelters, breeding dens, enclosures,veterinaryfacilitieshavebeendevelopedbasedontherecommendationsofthefindings.

Genetic study of the captive stock was done by LaCONES, CCMB. Reports concluded that 1:1 out of the total captive stock are genetically more vibrant when compared with others samples and the two individuals can be used for conservation breeding.

Studbook analysis: **inbreeding- not advisable Low coefficient- advisable**. Demographic analysis suggestedthatnewfoundersbeaddedtothecaptivepopulationandthepopulationsizebeincreasedtoatleast100 individualswiththequalsexratiointheperiodofnexttenyears.Thepopulationprojectionforbothactualandmodeled population suggest that the goal of maintaining at least 100 genetically viable and demographically stable individuals in captivity in India cannot be achieved without the addition of fresh founders and utilizing the reproductionpotentialofthecaptivepopulationtothemaximum.

Basedonthe geneticanddemographicanalysisofthecaptivestock2:2individualswasincludedinthecaptive.

ThecaptivestockinJune2014isasfollows:

Sl. No.	Name	Stud#	Sex	Birth Date	Sire	Dam	Location	Transponder
1	Karan	1897	M	23.10.1995	1059	1474	Darj	981098102057256
2	Tista	2399	F	29.03.2002	1897	2228	Darj	00-0611-4DB1
3	Budha	2401	M	19.06.2002	1850	1797	Darj	00-061-FA9B
4	Prabhat	2405	M	8.07.2002	1850	1899	Darj	00-0618-24E0
5	Ritu	2538	F	11.032004	1897	2228	Darj	981098102056547
6	Yasmin	2540	F	25.05.2004	1850	1797	Darj	ID-00-00F6-8A38
7	Rare	2994	F	19.06.2012	2405	2538	Darj	956000002158446
8	Kim	2846	F	29.05.2012	2566	2430	Nurnberg, Darj	3968000005548177

Sl. No.	Name	Stud#	Sex	Birth Date	Sire	Dam	Location	Transponder
9	Subash	2402	M	08.07.2002	1850	1899	Darj	00-0617-C8C5
10	Lavani	2861	F	06.05.2010	2469	2274	Lodz,Darj	968000005545293
11	Zima	2862	F	06.05.2010	2469	2274	Lodz,Darj	968000005542846
12	Sici		M	22.05.2011			Jhilava zoo, Czech Republic	956000001977872
13	Unnamed		U	02.05.2014	2401	2861	Darj	
14	Unnamed		U	02.05.2014	2401	2861	Darj	

Total population and their sex ratio: 14 (5:7:2)

Death of one male in 2014, death of 2 males in 2015 and 1 male in 2016 skewed the breeding options leaving the Park with 1 male and 8 female.

In consultation with the International Stud book keeper an animal exchange programme has been proposed with Dudley zoo and Mulhouse zoo.

Current stock of the species at the park as on 31.03.2016

Sl. No.	Name	Stud#	Sex	Birth Date	Sire	Dam	Location	Transponder
	Tista	2399	F	29.03.2002	1897	2228	Darj	00-0611-4DB1
	Ritu (Topkeydara)	2538	F	11.03.2004	1897	2228	Darj	981098102056547
	Yashmin	2540	F	25.05.2004	1850	1797	Darj	ID-00-00F6-8A38
	Rare	2994	F	19.06.2012	2405	2538	Darj	956000002158446
	Kim (Topkey dara)	2846	F	29.05.2012	2566	2430	Nurnberg,Darj	3968000005548177
	Subash (Topkey dara)	2402	M	08.07.2002	1850	1899	Darj	00-0617-C8C5
	Lavani (Topkey dara)	2861	F	06.05.2010	2469	2274	Lodz,Darj	968000005545293
	Zima	2862	F	06.05.2010	2469	2274	Lodz,Darj	968000005542846
	Tista	2399	F	29.03.2002	1897	2228	Darj	00-0611-4DB1

Total population and their sex ratio: 8 (1:8)

FUTURE WORKS:

- 1) Regular genetic demographic and hormonal analysis of the captive stock to ensure maximum genetic variability.
- 2) Behavioural study in captivity.
- 3) Research on the health issues of the species in young, adults and old individuals. Frequent occurrence of pneumonia, brittle bone disease, what leads to the occurrence of such diseases in higher frequency in captivity? Its preventive measures etc.
- 4) More exchange programmes.
- 5) Linkage of the ex-situ conservation with in-situ conservation.

Project Red Panda

Red panda *Ailurus fulgens* is a small mammal of the Himalayas, almost of the size of the jungle cat with chestnut coat and ringed tail. It is distributed in the Himalayas from Central Nepal through northern Burma in the mountains of southwestern China at altitudes between 900-13,000 feet. In India, red panda is distributed in Sikkim, Darjeeling Hills and Arunachal Pradesh.

Red panda is threatened by habitat loss and fragmentation. Red panda was also hunted and trapped in large number to be kept as pets and for supply to zoos all over the world. The species is enlisted as Endangered by the IUCN (2006) with a declining population in its distribution range. The species is a protected species in all its range countries (Nepal, Bhutan, India, Burma and China). In India the species receives protection under the Indian Wildlife Protection Act (1972). The species is also under the CITES I Appendix. Population estimated below 2500.

In captivity, a global captive breeding program is in place something which started in the early 1990s in Europe. Padmaja Naidu Himalayan Zoological Park, Darjeeling which at present has 17 (10:7) red pandas is also a part of this breeding program for the red panda. The zoo was able to restock four red pandas back to the wild as a conservation initiative.

A planned conservation Breeding Project as a part of the Global Captive Breeding Project as a part of the Global Captive Breeding Master Plan was initiated in early nineties in the Zoological Park in response to the International Conservation efforts, through initiation of the project and improvement/modification of existing housing facilities which already existed.

Zoological Park had one male (Basant) and three females (Amita, Chanda and Divya) all of wild origin in the stock at the beginning of the Project in 1990. Hence one male "Oscar" (d.o.b June 29, 1992) was brought from Rotterdam Zoo in April 1, 1993 to augment the existing population of 4 red Pandas in the zoological Park.

The first successful planned breeding of red Panda occurred on 20.06.1994 when two cubs "Ekta" and "Friend" were born to "Basant" and "Amita"

Hari (d.o.b – June 30, 1993, Rotterdam), Gora (male, d.o.b-June 25, 1993, Koln) and Indira (female d.o.b.-June 26, 1993, Madrid) arrived in Darjeeling on November 10, 1994 to induce new blood and to continue the planned breeding programme.

PNHZ Park in 2003 had a stable and genetically healthy population of 21 red pandas in captivity. Pair at Gangtok (Sikkim) Zoo (a subsidiary breeding center established in the region) has also started breeding.

The zoological park was in a position of realizing the ultimate objective of the project of releasing zoo bred red pandas in the wild in the Singalila national park, to begin with

Guidelines stipulated by the IUCN for re-introduction/re-stocking of captive born wild animals were followed in totality for the programme. All necessary clearances from Govt. of India and Govt. of West Bengal were obtained for the purpose.

Pre-release monitoring of the red panda population and habitat in the Gairibans area of the Singalila National Park was organized during November/December, 2002.

DNA based analysis was conducted in collaboration with Centre for cellular and Molecular Biology, Hyderabad for taxonomic status and genetic variability studies.

An Intermediary release facility (50 sq m) for soft release of the animals were created near Gairibans Beat office (around 8500ft) of South Singalila Range in the Singalila national Park. The construction cost was fully funded by the Central Zoo Authority, Govt. of India.

Both the animals were shifted to the intermediary release facility at Gairibans for acclimatization and kept there for 3-4 months. Though they were in the wild, they were still under the supervision and observation of some of the zoo staffs posted there. When the animals were thought to have acclimatized well to the environment, they were finally released into the wild.

Radio collars of appropriate size and weight were fitted on the animals for their post-release monitoring for at least 12 months (or till batteries of the collars were functional).

Out of the two female red pandas (Mini and Sweetie) released in 2003, sweetie gave birth to a cub in July 2004 in a hollow of an oak tree in Gairibans (SNP, Darjeeling).

In 2007 and 2008 two wild caught males were added to the captive stock including one female from Auckland zoo to increase the breeding potential.

In 2010 one captive born female was brought from Auckland Zoo, New Zealand to add variability to the existing population.

In 2012 Red Panda census was carried out in two phases the objective of the census was to - Conduct meetings and train locals for the census, Assess the population number -Assess the habitat, Further verification of the population status by genetic analysis through fecal samples, Other existing animals in the Red Panda habitat, Threat analysis, GIS Mapping of both the National Parks.

31 Red Pandas through direct sighting in both National parks. Through genetic analysis 38 in SNP (17:4:17) and 32 (12:13:7) in NVNP.

A short term research Project was also initiated from March 2012-2014 funded by Central Zoo Authority on "**Study of Red Panda (*Ailurus fulgens*) in ex-situ facilities in co-relation with in-situ facilities for conservation breeding** funded by Central Zoo Authority.

The genetic analysis of blood and faecal samples observed showed that captive Red Panda at PNHZP, Darjeeling are genetically vibrant and can be used selectively for Conservation breeding (CCMB) in 2013.

A collaborative work on the Red Panda Stress level-hormonal analysis with LaCONES, CCMB completed, results indicates cyclicity of all female individuals in 2013-2014.

A Research project "Study on housing, enclosure enrichment, evaluation of existing housing and enrichment practices" also funded by Central Zoo Authority conducted by Wildlife Institute of India also includes the species Red Panda.

New breeding facility at Topkedara for the Red Pandas.

A short term research Project was also initiated from March 2013-2015 funded by Central Zoo Authority on "**Red Panda Nutrition-Towards an Integrated Approach**".

Population Habitat Viability Analysis for Red Panda done on November 2014.

Pt. Govind Ballabh Pand High Altitude Zoo, Nainital approved as participating Zoo by Central Zoo Authority vide letter F.N.O 24-7/2007-CZA(Vol.II)(A)/3613 dated 25.9.2013.

A pair of Red Panda was transferred to Nainital Zoo on 25.11.14. The pair gave birth to two cubs in 2015, thus ensuring a captive population that shall later assist the breeding programme at Darjeeling Zoo.

One captive female added to the captive stock from Sikkim Zoo for further breeding.

Sl. No.	Name	Stud Book No.	Sex	Sire	Dam	DT of ACQ	DOB	Transponder No.	Remarks
1	Shakya	01127	M	Gora	Ekta	-	18.06.01	ID-00-0611-3083	
2	Sheetal	0356	F	Omin	Kalita	-	02.07.03	981-0981-02055661	
3	Samridhi	0886	F	John	Sheetal	-	06.07.08	9810-9810-205573	
4	Pokhraj	01128	M	Gora	Ekta	-	18.6.01	ID-00-061-FD19	
5	Ram	1088	M	John	Sheetal	-	22.06.10	0006B82659	Topkey dara
6	Janaki	1089	F	John	Sheetal	-	22.06.10	0006B7428B	Topkey dara
7	Rigsal	0789	F	Rahul	Lucky	31.10.11	28.05.07	0006B7107E	

Sl. No.	Name	Stud Book No.	Sex	Sire	Dam	DT of ACQ	DOB	Transponder No.	Remarks
8	Smile	12123	F	Kaijalay	Samridhi	-	19.06.2012	956000002159372	
9	Shifu	13175	M	Kaijalay	Risgel	-	27.06.2013	956000002147924	Shifted to Topkey dara on 7.12.2015
10	Kitchi	13176	F	Kaijalay	Risgel	-	27.06.2013	956000002145534	Topkey dara
11	Shova	11116	F	Ram	Lucky	22.02.2014 from Sikkim Zoo		956000002158277	Topkey dara
12	Shine	-	F	Kaijalee	Sambridhi	-	04.07.2014	-	
13	Balam	15117	M	Kaijalee	Janaki	-	07.06.2015	-	
14	Prashana	15118	F	Ram	Shova	-	16.06.2015	-	
15	Noel	15119	M	Shifu	Sheetal	-	14.07.2015	-	
16	Joel	15120	M	Shifu	Sheetal	-	14.07.2015	-	
17	Karma	10118	F	Ram	Lucky	23.11.2015 from Sikkim Zoo	03.06.2010	956000002158469	Shifted to Topkey dara on 7.12.2015

The current population of Red Panda at Darjeeling Zoo stands as 7:10

Total : 7:10

Ongoing Work in the Red Panda Project:

Research work being conducted on **“Population & behavioural Ecology of red Panda at Singalila national Park and Neora Valley National Park, West Bengal, India with special reference to conservation** funded by West Bengal Zoo Authority.

Future Work:

Ex-situ:

- Encourage exchange of Red panda among zoos at national and international level.
- Scope to include Himalayan Nature Park, Kufri and Itanagar Zoo, Arunachal Pradesh to be participating zoos in the Red panda Conservation Breeding Programme.
- Compilation of husbandry guidelines for red Panda.
- Formulate Population Management Plan/Species Survival Plan.
- Basic behavioural study on the captive red pandas.
- Restocking of captive red pandas.
- Take up advance studies with the research organizations – Genetic studies/Germplasm banking/disease screening/hormonal and behavioural studies.
- Better awareness and knowledge dissemination.
- Participation in the GSMP's.
- Opportunities for Zoo/Wildlife Veterinarians, Biologists, Technicians, Animal Supervisors and Zoo Keepers.

In-situ:

- Zoos and other organization routinely conduct surveys of one or more PA's (population/genetics).
- Intensive management of protected areas – SNP and NVNP.
- Routine threat assessment.

Sl. No.	Animal Name	Scientific Name	Opening stock as on 01.04.2015-31.03.2016				Birth			Acquisition			Disposal			Death			Closing stock as on 01.04.2015 - 31.03.2016			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
Mammal			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
6	Himalayan Palm Civet	<i>Paguma larvata</i> (Hamiltonn-Smith, 1827)	2	1	0	3	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	2
7	Jackal	<i>Canis aureus</i> (Linnaeus, 1758)	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8	Langur Common	<i>Semnopithecus entellus</i> (Dufresne, 1797)	2	4	0	6	0	0	0	0	0	1	1	0	0	0	0	1	3	0	4	
9	Leopard Clouded	<i>Neofelis nebulosa</i> (Griffith, 1821)	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
10	Leopard Snow	<i>Uncia uncia</i> (Schreber, 1775)	4	9	0	13	0	0	0	0	0	0	0	0	0	3	1	0	1	8	0	9
11	Leopard common	<i>Panthera pardus</i> (Linnaeus, 1758)	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
12	Markhor	<i>Capra falconeri</i> (Wagner, 1839)	2	4	0	6	1	1	0	0	0	0	0	0	1	2	0	2	3	0	5	
13	Panda Red	<i>Ailurus fulgens</i> (Cuvier, 1825)	6	8	0	14	3	1	0	1	0	0	0	0	2	0	0	7	10	0	17	
14	Slow Loris	<i>Nycticebus coucang</i> (E. Geoffroy, 1821)	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
15	Thar Himalayan	<i>Hemitragus jmelchius</i> (Smith, 1826)	3	5	0	8	1	0	1	0	0	0	0	0	0	2	0	4	4	0	8	
16	Tiger Bengal	<i>Panthera tigris</i> (Linnaeus, 1758)	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	
17	Himalayan Wolf	<i>Canis lupus himalayensis</i> (Gray, 1863)	2	8	0	10	0	0	1	0	0	0	1	0	2	2	0	1	5	0	6	
18	Yak	<i>Bos grunniens</i> (Linnaeus, 1766)	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
	Total		44	52	0	96	7	2	2	1	1	0	1	2	0	11	9	0	42	47	0	89
Reptile			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1	Python Indian/ Indian Rock Python	<i>Python molorus</i> (Linnaeus, 1758)	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
2	Russell Viper	<i>Daboia russelii</i> (Shaw & Nodder, 1797)	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
	Total		2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4

**Annual Inventory Report of Padmaja Naidu Himalayan Zoological Park, Darjeeling
for the month of 01.04.2015-31.03.2016**

Exotic Species:																						
Sl. No.	Animal Name	Scientific Name	Opening stock as on 01.04.2015 - 31.03.2016				Birth			Acquisition			Disposal			Death			Closing stock as on 01.04.2015 - 31.03.2016			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1	Amazon Orange Winged	<i>Amazoa amazonica (Linnaeus,1766)</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
2	Torraco	<i>Corythaixoides concolor (Smith,1833)</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
3	Macaw Blue & Gold	<i>Are chloropterus (Gray 1859)</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4	Macaw Red & Blue	<i>Are chloropterus (Gray,1859)</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
5	African grey parrot	<i>Psittacus erithacus (Linnaeus,1758)</i>	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
6	Sulphur crested Cockatoo	<i>Cacatua galerita (Latham,1790)</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
7	Electus Parrot	<i>Electus roratus (Muller,1776)</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8	Rose Ringed Parakeet	<i>Psittacula krameri (Scopoli,1769)</i>	0	1	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6
9	Bare Eyed Cockatoo	<i>Cacatua sanguinea</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
10	Cocktiels	<i>Nymphicus hollandicus (kerr, 1792)</i>	0	0	32	32	0	0	0	0	0	0	0	0	0	0	0	4	0	0	28	28
11	Roseat Cockatoo	<i>Eolophusroseicapilla (Vieillot,1817)</i>	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
	Pheasant Green	<i>Phasianus versicolor (Vieillot,1825)</i>	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
12	Pheasant Chinese Silver	<i>Lophura nycthemera (Linnaeus,1758)</i>	4	10	6	20	0	0	1	0	0	0	1	2	0	0	1	0	6	11	0	17
7	Pheasant Golden	<i>Chrysolophus pictus (Linnaeus,1758)</i>	16	18	7	41	0	0	0	0	0	0	4	4	0	0	1	0	13	19	0	32

8	Reeve's Pheasant	<i>Syrmaticus reevesi</i> (Gray,1829)	4	6	0	10	0	0	3	0	0	0	0	0	0	1	1	3	3	5	0	8
9	Pheasant Lady Amherst's	<i>Chrysolophus amherstiae</i> (Linnaeus,1758)	2	1	0	12	0	0	0	0	0	0	0	0	0	1	2	0	1	8	0	9
Total			3	5	5	14	0	0	4	0	0	0	5	6	0	2	5	7	3	5	3	11
			7	3	0	0	0	0	0	0	0	0	5	6	0	2	5	7	4	2	3	9

Annual Inventory Report of Padmaja Naidu Himalayan Zoological Park, Darjeeling for the month of 01.04.2015-31.03.2016

Other Species:																						
Sl. No.	Animal Name	Scientific Name	Opening stock as on 01.04.2015				Birth			Acquisition			Disposal			Death			Closing stock as on 31.03.2016			
	Bird		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1	Red Jungle Fowl	<i>Gallus gallus</i> (Linnaeus, 1758)	12	10	0	22	0	0	21	0	0	0	5	6	0	0	1	2	8	5	16	29
	Total		12	10	0	22	0	0	21	0	0	0	5	6	0	0	1	2	8	5	16	29
	Mammals																					
1	Himalayan Goral	<i>Nemorhaedus goral</i> (Hardwicke,1825)	8	3	0	11	0	0	0	0	0	0	0	0	0	2	1	0	6	2	0	8
2	Barking Deer	<i>Muntiacus muntjack</i> (Rafinesque,1815)	14	11	0	25	0	0	4	0	0	0	9	8	0	1	0	1	4	6	0	10
3	Sambar deer	<i>Rusa unicolor</i> (Kerr,1792)	1	4	0	5	0	0	0	0	0	0	0	2	0	0	0	0	1	2	0	3
	Total		23	18	0	41	0	4	0	0	0	9	10	0	3	1	1	11	10	0	21	
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
	Reptiles																					
	Tortoise Indian Star	<i>Geochelone elegans</i> (Schoepf,1795)	1	1	9	13	0	0	0	0	0	0	0	0	0	0	0	9	1	1	0	2
	Indian Sand Boa	<i>Eryx johnii</i> (Russell, 1801)	1	1	0	2	0	0	0	0	1	1	0	0	0	0	1	0	2	1	0	3
	Total		2	2	9	15	0	0	0	0	1	1	0	0	0	0	1	9	3	2	0	5
	Amphibian																					
	Himalayan Newt	<i>Tylotriton verrucosus</i> (Anderson, 1871)	6	7	16	29	0	0	0	0	0	0	0	0	0	0	0	0	6	7	16	29
	Total		6	7	16	29	0	0	0	0	0	0	0	0	0	0	0	0	6	7	16	29

PHEASANTS AND ANIMALS IN THE ZOO AS ON 31ST MARCH, 2016- AN ABSTRACT

AMPHIBIAN

HIMALAYAN NEWT (<i>Tylototriton verrucosus</i>)	29
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TOTAL AMBHIIBIAN	29
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PHEASANTS & BIRDS

PHEASANT GREY PEACOCK (<i>Polyplectron bicalcaratum</i>)	6
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PHEASANT IMPEYAN MONAL (<i>Lophophorus impejanus</i>)	4
---	---

RED JUNGLE FOWL (<i>Gallus gallus</i>)	29
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PHEASANT KALEEJ (<i>Lophura leucomelanos</i>)	17
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PHEASANT CHEER (<i>Catreus wallichii</i>)	4
---	---

SATYR TRAGOPAN (<i>Tragopan satyra</i>)	0
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TEMMINCK'S TRAGOPAN (<i>Tragopan temminckii</i>)	13
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LADY AMHERST (<i>Chrysolophus amherstiae</i>)	9
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PHEASANT SILVER (<i>Lophura nycthemera</i>)	17
---	----

PHEASANT GOLDEN (<i>Chrysolophus pictus</i>)	32
--	----

PHEASANT GREEN (<i>Phasianus versicolor</i>)	1
--	---

PHEASANT RING NECKED (<i>Phasianus colchicus</i>)	0
---	---

HILL MYNA (<i>Gracula religiosa</i>)	0
--	---

REEVE'S PHEASANT (<i>Syrnaticus reevesii</i>)	8
---	---

ROSE RINGED PARAKEET (<i>Psittacula krameri</i>)	6
--	---

RED AND BLUE MACAW (<i>Ara chloroptera</i>)	2
---	---

BLUE AND GOLD MACAW (<i>Ara ararauna</i>)	2
---	---

GREY TORRACO (<i>Corythaixoides concolor</i>)	2
---	---

ORANGE WINGED AMAZON (<i>Amazona amazonica</i>)	2
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AFRICAN GREY PARROT (<i>Psittacus erithacus</i>)	3
--	---

BARE EYED COKATOO (<i>Cocatus sanguine</i>)	2
---	---

SULPHUR CRESTED COCKATOO (<i>Cocatus galerita</i>)	2
--	---

ROSEATE COCKATOO (<i>Eolophus roseicapilla</i>)	2
---	---

ECLECTUS PARROT (<i>Eclectus roratus</i>)	1
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COCKATAILS (<i>Nymphicus hollandicus</i>)	28
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TOTAL BIRDS & PHEASANTS	192
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MAMMALS

INDIAN TIGER (<i>Panthera tigris</i>)	3
CLOUDED LEOPARD (<i>Neofelis nebulosa</i>)	1
COMMON LEOPARD (<i>Panthera pardus</i>)	4
SNOW LEOPARD (<i>Uncia uncia</i>)	9
BLACK PANTHER(<i>Panthera pardus</i>)	1
HIMALAYAN WOLF (<i>Canis lupus himalayensis</i>)	6
JACKAL (<i>Canis aures</i>)	1
ASIATIC BLACK BEAR (<i>Ursus thibetanus</i>)	4
RED PANDA (<i>Ailurus fulgens</i>)	17
LEOPARD CAT (<i>Prilonarius bengalensis</i>)	2
JUNGLE CAT (<i>Chaus chaus</i>)	1
HIMALAYAN PALM CIVET (<i>Pamuga larvata</i>)	2
COMMON GREY LANGUR (<i>Seminopithecus entellus</i>)	4
ASIAN PALM CIVET (<i>Paradoxurus hermophroditus</i>)	8
SLOW LORIS (<i>Nycticebus coucang</i>)	1
HIMALAYAN GORAL (<i>Nemorhaedus goral</i>)	8
HIMALAYAN THAR (<i>Hemitragus jemlahicus</i>)	8
BLUE SHEEP (<i>Pseudois nayaur</i>)	11
SAMBAR DEER (<i>Cervus unicolor</i>)	3
BARKING DEER (<i>Muntiacus muntjac</i>)	10
MARKHOR (<i>Capra falconeri</i>)	5
YAK (<i>Bos grueins</i>)	2
TOTAL MAMMALS	111

REPTILES

STAR TORTOISE	2
Indian rock python (<i>Python molours</i>)	2
RUSSELL'S VIPER (<i>Eryx johnii</i>)	2
INDIAN SAND BOA	3
TOTAL REPTILES	9
TOTAL ANIMALS	341

a) Amphibian	:	29
b) Pheasants/Birds	:	192
c) Mammals	:	111
d) Reptiles	:	9
TOTAL ANIMALS		<u>341</u>

HISTORY SHEET OF ENDANGERED ZOO ANIMALS FOR THE YEAR 2015-2016

Red Panda (*Ailurus fulgens*)

House Name	Sex	Int. Stud Book No.	Transponder No.	Sire	Dam	Date of Birth	Place of Birth
Balam	M	15117		Kaijalee	Janaki	07.06.2015	PNHZ Park
Prashana	F	15118		Ram	Shova	16.06.2015	PNHZ Park
Joel	M	15120		Shifu	Sheetal	14.07.2015	PNHZ Park
Noel	M	15119		Shifu	Sheetal	14.07.2015	PNHZ Park

Blue Sheep (*Pseudois nayaur*)

House Name	Sex	Int. Stud Book No.	Transponder No.	Sire	Dam	Date of Birth	Place of Birth
Umang	M			Neel	Bubbly	22.05.2015	PNHZ Park
Unnamed	M			Moon	Venus	22.05.2015	PNHZ Park

Himalayan Tahr (*Hemitragus jemlahicus*)

House Name	Sex	Int. Stud Book No.	Transponder No.	Sire	Dam	Date of Birth	Place of Birth
Anita	F			Sushil	Sania	18.05.2015	PNHZ Park
Unnamed	F			Somdev	Sania	20.05.2015	PNHZ Park
Unnamed	M			Sushil	Sania	21.05.2015	

CHAPTER 6

6.1. VISITORS STATISTICS

The visitor flow for last six years was as below—

MONTH	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-2015	2015-2016
April 2015	27549	28187	52834	35788		50308	56,464	58834
May 2015	48325	49775	55587	61977	83161	73933	95,663	79190
June 2015	15867	47202	30112	60810	67198	95371	74,188	60651
July 2015	2974	7779	12267	19119	18120	13825	25,290	18628
August 2015	6929	8646	8133	14191	15208	476	18,514	17514
September 2015	11782	20723	13584	17862	16251	6465	20,515	24536
October 2015	37047	42257	39869	63237	48415	32512	67,441	56990
November 2015	23018	25644	31386	35463	43510	25589	42,119	45223
December 2015	20478	19703	27950	35503	40474	34069	46,993	46270
January 2016	10198	15716	12321	25599	26011	23406	29,550	37795
February 2016	9078	16027	5680	20574	19443	19494	26,344	31113
March 2016	17291	26458	20615	36545	41814	47256	48,738	64635

MONTH	NO. OF INDIAN VISITORS	NO. OF FOREIGN VISITORS	TOTAL VISITORS	REVENUE EARNED (Rs)
April 2015	57244	1590	58834	12,24,380.00
May 2015	78424	766	79190	16,06,780.00
June 2015	60302	349	60651	12,23,490.00
July 2015	18314	314	18628	3,81,980.00
August 2015	17016	498	17514	3,65,220.00
September 2015	23675	861	24536	5,16,550.00
October 2015	54918	2072	56990	12,01,960.00
November 2015	43325	1898	45223	9,61,400.00
December 2015	45479	791	46270	9,49,130.00
January 2016	37024	771	37795	7, 79,030.00
February 2016	29867	1246	31113	6,59,640.00
March 2016	62872	1763	64635	13,45,590.00
				1,12,15,150.00

6.2 What the visiting Dignitaries had to say:-

Date of Visit	Name of the Visitor and Designation	Remarks
04.05.2015	Mr. Sushil Srivastava , IFS PCCF, HoFF Himachal Pradesh	An outstanding place which is a must for anyone visiting Darjeeling. Extremely well kept and well planned for which full marks to energetic dynamic and very knowledgeable Director Shri Piar Chand and his team. I wish them all the very best.
12.05.2015	Mr. S. Khamar , WBJS Judge, Industrial Tribunak (3 rd) Kolkata.	This is a nice place for visiting of everyone who comes to see Darjeeling. The authority is well maintaining this place. I advice everyone including me to do our duties properly to make our nation good and to resolve all problems raising our head high.
13.05.2015	Mr. K.S. Samant , IFS CCF/Director Uttarakhand Forestry Training Academy, Uttarakhand	I have visited Padmaja Naidu Himalayan Zoological Park twice, once during my training 1979-81 and again with FRO trainees of UFTA along with Dy. Director , YFTA. PNHZ Park is now emphasizing for the breeding of Red panda, snow leopard. PNHZ park Director and Education officer has presented a case study of Red panda to our FRO Trainees. Very nice to see Red Panda, Snow leopard and many carnivore and herbivore even birds. Park management has kept the zoo efficiently and carefully.

Date of Visit	Name of the Visitor and Designation	Remarks
20.05.2015	<p align="center">Dr. V.K. Saraswat, Member Niti Aayog Parliament Street, New Delhi</p>	<p>I am really delighted to see the zoological park set up for nurturing the Himalayan Biological Species. It was highly educative and for my grand children it was fun. I am happy to see the professional upkeep of the zoo. The research activities are of very high standard and scientists are eager to take it to international standard. It is time we provide higher level of funding to improve the standard and provide better facilities. I congratulate the team for their outstanding work and wish them all the best in their future endeavours. God bless you all.</p>
29.05.2015	<p align="center">Dr. U. R. R. Singh IFS</p>	<p>Very comfortable stay. Enjoyed the Darjeeling climate. The zoo is very well maintained. I compliment the Director and his team for the outstanding management of the zoo and receiving wide variety of visitors in the zoo and fulfilling their expectation. I wish all the success.</p>
25.11.2015	<p align="center">Ms. Ashwika Kapur Wildlife Filmmaker Recipient of Green Oscar</p>	<p>My heartiest congratulations to the Darjeeling Zoo team for their immense dedication towards the upkeep of the breeding projects here. The Darjeeling Zoo's work makes me very proud as a conservationist. Keep up the super work.</p>
25.03.2016	<p align="center">Dr. Kailash Chandra Director Zoological Survey of India, Kolkata</p>	<p>I compliment Zoo Authority (PNHZA) Darjeeling for showing me and my family all the enclosures and details of all the species particularly inhabiting Himalayan Region. Although ZSI has been extending all sorts of identification services of seized wildlife material to West Bengal Forest Department, but also like to expand the collaborative activities for phylogeny of species of Himalayas. Thanks to Ms. Upashna for the hospitality.</p>
25.03.2016	<p align="center">Dr. Indrani Das Head of the Department, Department of Botany, S.A. Jaipuria College Kolkata</p>	<p>An excellent place to get all kind of goodness. Animals are kept in good condition. One of my memorable days i have ever spent.</p>

CHAPTER – 7

A Brief History of Dowhill and Topkedara

Dowhill Satellite Park, Kurseong.

Dowhill Deer Park, Kurseong is located at uphill of Kurseong town, 4 km away amidst hilly forested tracts under Kurseong Forest Division. It was established in 1980 over 5.2 hectares of land. The Deer Park before housed Yak, Barking Deer, Mountain Goat, Rabbit. There is one abandoned Interpretation Center 8m x 8m. At present 2 CDL Quarter and a Rest Shed is on the other side of the Park. There is one shed near the gate. Before the Deer Park was managed by a Beat Officer assisted by two Group 'D' Staff and 3 daily wage worker. Most of the area of the existing deer park is mainly covered with thick wood having steep slope.

NEED TO DEVELOP THE DEER PARK, DOWHILL, KURSEONG AS SATELLITE ZOO.

Eastern Himlayan Zone, notably, Sikkim & Darjeeling forest are rich in biodiversity. Some herbivore species are rare and endemic and in the wild, their population is in dwindling state. A huge and partial infrastructural facility for creation of pheasantry and other breeding projects , so with the renovation of existing infrastructure conservation breeding of different herbivore and pheasants species can be done.

PLANNING FOR EXTENSION ACTIVITY OF PROPOSED SATELLITE ZOO, DOWHILL, KURSEONG.

In XXVIII Annual General Body Meeting and XXXIII Governing Body Meeting, the animal collection plan of this zoo was reviewed for inclusion in animal and birds collection plan of the zoo which may be kept in the proposed Satellite Zoo, Dowhill, Kurseong.

With reference to the Principal Conservator of Forests, West Bengal vide Letter No. 4428/CS/2M - 379/08 dated 29/09/08, and area of 4.65 hectares and 1.28 hecters of forest land under Kurseong Forest Division has been handed over for construction of Satellite Zoo and staff quarters respectively to Padmaja Naidu Himalayan Zoological Park, Darjeeling to develop it into a satellite zoo for the purpose of pheasantry as well as conservation breeding projects as dated 25/02/09.

After the handing of the Deer Park, Kurseong to PNHZ Park following work has been initiated.

1. Area Survey of Dowhill Eco Park.
2. Contouring of the Dowhill area has been done indicating landforms and elevations, hydrography, transportation, vegetation boundaries, urban areas, buildings and a variety of other features.
3. Construction of aviary, herbivore enclosures, staff quarters, Dy. Directors residential quarter, construction of suspension bridge.
4. Transfer of animals –Himalayan Monal, Golden Pheasant, Lady Amherst Pheasant, Satyr tragopan, Silver pheasant, Temminck's tragopan, Kaleej pheasant, Blue sheep, Himalayan Thar, Barking Deer, Himalayan goral.
5. The breeding centre has been doing remarkably well with successful births of endangered high altitude herbivores.
6. Births of exotic and indigenous pheasants have also taken place

7. Taking a step further ahead in the Conservation Breeding of pheasants, the Park has come up with a 2-unit pheasantry at the Pheasants and Herbivores Breeding Centre, Satellite Facility, Dow Hill, Kurseong adjacent to the previously constructed 7-unit pheasantry, complete with chick rearing and artificial incubation rooms, covering an approximate area of 426.43 sq. m.
8. Electrification of the chick rearing house complete and made functional.

CONSERVATION BREEDING CENTRE FOR SNOW LEOPARD AND RED PANDA AT TOPKEDARA

5 hctrs of land in Topkedara block under Senchal Wildlife Sanctuary has been handed over to Padmaja Naidu Himalayan Zoological Park for the construction of the off- display Conservation Breeding Centre for Snow leopard and Red Panda. The area was inspected by the Chief Conservator of the Forests/Wildlife (North and Director/PNHZ Park on 30 November 2010. Survey of the area has been completed and contouring of the area is in process.

The new off-display Conservation Breeding Centre for Snow leopard (*Uncia uncia*) and Red Panda (*Ailurus fulgens*) at Topkedara funded by the Govt. of West Bengal and Central Zoo Authority, MoEF was inaugurated on 08.10.2013 by the Honorable Minister in Charge (Forest) Shri. Hiten Barman along with North Bengal Development Minister Shri. Gautam Deb. The inauguration was followed up by the release of a pair of Snow leopard (*Uncia uncia*) by the two ministers.

Two new enclosures each have been constructed at Topkedara for the Red Panda and Snow leopard. The two new enclosures for Red panda is 210 sq meters each and that for the snow leopard is 680 sq m each. After the completion of the two red panda enclosures appropriate enrichments like aerial walkways, breeding boxes, resting shades were put up in both the enclosures. Two pairs of red pandas have been shifted on **07.12.2015** in the enclosures.



BENGAL NATURAL HISTORY MUSEUM

With the establishment of the Northern Bengal State Railway in 1878 and connection with Darjeeling in 1881 with the name Darjeeling Himalayan Railway the popularity of Darjeeling as Hill Station spread eventually and visitors began thronging the Hill Station, many were amazed by the faunal diversity of this place. As recorded during that period the mammalian species comprised between 80-90 species including some of the rarer cats, pandas and the Himalayan flying squirrel. About 450 species of birds- nearly one- fifth of the total species found in the Indian sub- continent, 100 species of Snakes, exceedingly rich in insects and butterflies.

With this richness in 1903 the Lt. Governor of Bengal intimated the Govt. of India of his idea of starting a small Museum at Darjeeling allowing the visitors to the hill station an opportunity to obtain information about Birds and Butterflies of the district.

A suitable site was chosen in the Lloyd's Botanical Garden and a building was constructed for the purpose. The Museum was looked after by the committee comprising the Dy. Commissioner, Tea Planter, a vice Chairman of Darjeeling Municipality, Dy. Conservator of Forest and Executive Engineer. This arrangement proved unsatisfactory and in 1915 Lord Carmichael, Governor of Bengal took an interest in the Museum and the present building was completed in 1915. The maintenance was still a problem and in spite of approaching the Indian Museum, Calcutta and the Zoological Survey of India the offer was turned down for the upkeep of the Museum. It was finally decided that the Bengal PWD would be responsible for the building; the committee for arrangement directly saw the requirement of a Curator. In 1922 it was proposed that a Natural History Society should be established to take over the Museum and be responsible for its maintenance and the publication of small quarterly periodicals. Thus Darjeeling Natural History Society was accordingly formed which took over the management of the Museum in 1923 with the aims and objectives as follows:

 To promote the study of Natural History of Northern Bengal and Eastern Himalayas and to get together a representative collection of the fauna of North Bengal and the adjoining

Sl. No.	Items	Species
1	Skull	Ibex, Blue sheep, Great Tibetan sheep, Marco Polo sheep, Takin, Serow, Goral, Shapu, Black buck, Tibetan Antelope, Shou, Shamber Deer, Spotted Deer, Indian Gaur
2	Anklers	Barasingha, Shou, Barking Deer, Hog Deer, Kashmir stag, Sambhar Deer, Spotted Deer
3	Horns	Goral, Black buck, Indian Gazella, Nilgiri Thar
4	Head mount	Nilgiri Thar, Indian Gazella, Black buck, Barasingha, Barking deer, Hog deer, Kashmir stag, Shamber Deer, Spotted Deer, Indian gaur, Wild Buffalo, Indian Wild Boar, Tiger, Asiatic Black Bear, Snow Leopard, Yak
5	Full body mount	Clouded Leopard, Royal Bengal tiger, Common Leopard, Spotted Deer Calf, Yellow Throated Martin, Asiatic Black Bear, Red Panda, Eastern Pangolin, Common Indian Mongoose, Estuarine Crocodile
6	Skin	Monitor Lizard, Royal Bengal Tiger, Snow Leopard, Otter, common Leopard, Asiatic Black Bear, Shamber, Spotted Deer, Himalayan Palm Civet, Martin, Yak, Goral, Leopard Cat, Flying Squirrel, etc.
7	Tusk & Feet	Elephant

Sl. No.	Items	Species
8	Birds	Mynas , Night jar, Thrush, Warblers, Flycatchers ,Kingfisher, Snipe, Wood peckers, Birds of prey, Swifts, Niltava, Water birds, Barbets, Hornbills, Cuckoos, parrots & Parakeets, Owls , Minivets, Fantails, Chats, Robin , Buntings, Sunbirds , Broadbills , Finches, Nutcrackers, Suthora, Jay, Weaver birds, Munia, Sparrows, Swallows, Shrikes, Leothrix, Cutia, Barbing, Bablers,Larks, Vulture, Bustards, etc.
9	Pheasants	Koklas, Satyr Tragopon, Red Jungle Fowl, Himalayan Monal, Indian Peacock, Mrs. Hume Barred Backed, Cheer
10	Nest	Warblers, Flycatcher, Thrush, Tit, Bablers, Chat, Flowerpeckers, Bulbul, Finch, Swift
11	Eggs	Thrush , Jacana, Kingfisher, Mynas, Bushchat, warbler, Plover, Curlews, Weaver, Partidge, Robins, Cracke, Baye, Kite, Koel, Pheasant, Owl, White eye
12	Dragon, Flies & Insects	Cicadidae, Fulgaidae, Pentatoenidae, Cosmomcorta, Longicora, Coleoptera, Elatridae, Chycomellidae, Curculionidae
13	Grasshoppers	
14	Moths	
15	Beetles	
16	Butterflies	Lime Butterfly, Western Courtier, Autumn Leaf, Blue Admiral, Plain Tiger, Blue Bottle, Red Helen, Paris Peacock etc.
17	Snakes	Vipers, Krait, whip Snake, Rat Snake, Cat Snake, Cobra, Coral Snake etc.
18	Fishes	Katla, Bagha, Chega, Pabda, Singhi, Magur, Tengra, Katle, etc.
19	Others	Green Turtle Star Fish, Giant Leech, Indian Salamander etc.

Parts of Sikkim, Nepal and Bhutan.

✍ Maintaining the Natural History Museum

✍ To engage in such other acts as are incidental or conducive to the attainment of the above objects.

Mr. Charles M. Inglis, an amateur ornithologist was persuaded to accept the post of the curator. He served the Museum for 26 years from 1923- 1948 and built up the Museum by also adding his own private collection.

HANDING OVER OF BENGAL NATURAL HISTORY MUSEUM TO PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK

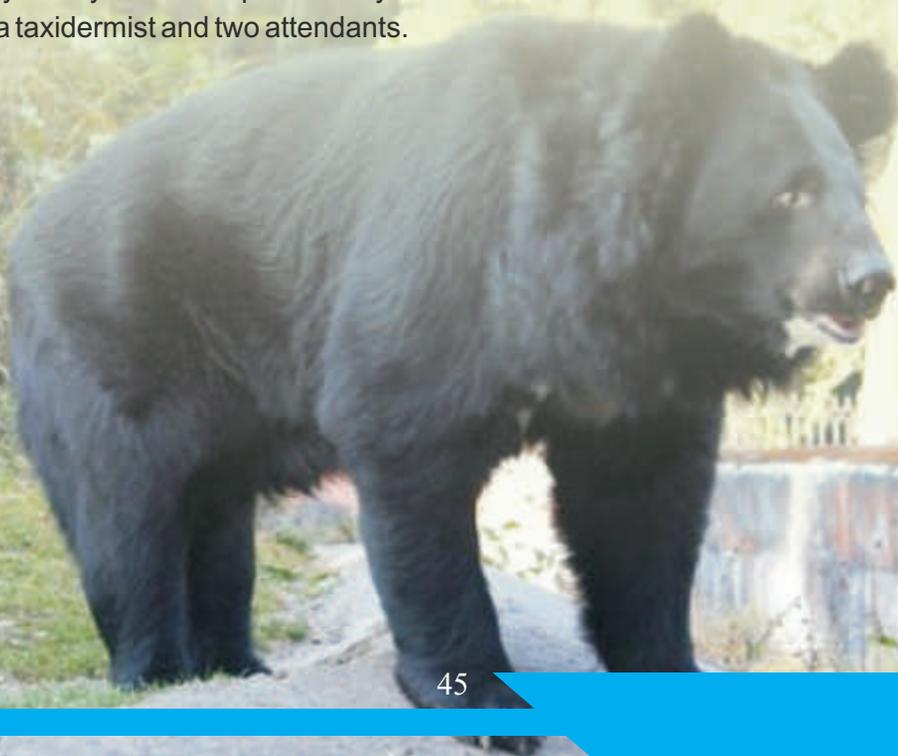
On the keen interest of the Ex- Governor of West Bengal Mr. Gopal Krishna Gandhi who wanted the museum to be shifted to Padmaja Naidu Himalayan Zoological Park, the museum was Officially handed over to the Park on 07.01.2010 till date which was directly under the control of the Wildlife Division I for its upkeep and maintenance and further upliftment of the museum in the near future Bengal Natural History Museum, Darjeeling, provides the keen visitors with precious knowledge on the natural world and resources, significant enough to generate the commoner's awareness about natural environ. Bengal Natural History Museum, Darjeeling, enchants visitors with a fascinating presentation of diverse nature, full of flora and fauna , the museum is not only important form the archaeological point of view , but also focuses on the process of natural evolution.

There are a wide variety of items in the exhibit area at present. An inventory of all the items on display including the stock has been prepared. Later these items have been digitized by photographing each items and also providing information's of the items thus making it easier to preserve, access, and share in the form of a book. The items at the museum includes Skull, Antlers, Horns, Head mounts, Full body mounts, Skin of different animals, Tusk & feet of Elephant, Birds, Pheasants, Nests and Eggs of various birds and Pheasants, Dragonflies, Insects, Grasshoppers, Moths, Beetles, butterflies, snakes, fishes etc.details as below.

During this annual the exhibit area was completed in the new building. The exhibit area was developed with the concept of showing the faunal diversity of eastern Himalayas including the lower plains. The exhibit begins with the history of the Bengal Natural History Museum, exhibits of the old stuffed specimens of birds, old publications, different types of ecosystems of West Bengal, Entomology section, bird section, Mountain ecosystem, display of mammals, skin, head mounts, skulls etc. the new museum also houses an auditorium for educational purposes. The exhibit items are being maintained with regular cleaning and frequent changing of the preservatives. Besides this other activities of the BNHM includes:

- 1) Digitization of the entire exhibit items completed.
- 2) Cleaning and repairing the stock items.
- 3) Stuffing of the new specimens- Red Panda, Pheasants etc.

The museum day to day work is supervised by the Research and education cell of the park with the help of Museum supervisor a taxidermist and two attendants.



BIODIVERSITY OF DARJEELING ZOO

BIRDS

	Scientific Name	Local Name
1	<i>Aethopyga nipalensis</i>	Green tailed sunbird
2	<i>Alcippe castaneiceps</i>	Rufous winged fulvetta
3	<i>Arachnothera longirostra</i>	Little spider hunter
4	<i>Certhia nipalensis</i>	Rusty flanked tree creeper
5	<i>Cissa chinensis</i>	Common green magpie
6	<i>Corvus macrorhynchos</i>	Largebilled crow
7	<i>Culicicapa ceylonensis</i>	Gray headed canary flycatcher
8	<i>Dendrocopos canicapillus</i>	Grey-capped pygmy woodpecker
9	<i>Dendrocopos darjellensis</i>	Darjeeling woodpecker
10	<i>Dendrocopos macei</i>	Fulvous breasted woodpecker
11	<i>Eumyias thalassina</i>	Verditer flycatcher
12	<i>Ficedula hyperythra</i>	Snowy browed flycatcher
13	<i>Ficedula westermanni</i>	Little pied flycatcher
14	<i>Garrulax erythrocephalus</i>	Chestnut crowned laughing thrush
15	<i>Gracula religiosa</i>	Hill myna
16	<i>Heterophasia capiatrata</i>	Rufous sibia
17	<i>Hypsipetes leucocephalus</i>	Black bulbul
18	<i>Icinaetus malayansis</i>	Black eagle
19	<i>Lanius tephronotus</i>	Grey backed shrike
20	<i>Leiothrix argenteauris</i>	Silver eared mesia
21	<i>Minla ignotincta</i>	Red tailed minla
21	<i>Minla strigula</i>	Chestnut tailed minla
22	<i>Monticola rufiventris</i>	Chestnut belliedrock thrush
23	<i>Myiomela leucora</i>	White tailed robin
24	<i>Myophonus caeruleus</i>	Blue whistling thrust
25	<i>Niltava grandis</i>	Large niltava
26	<i>Orthotomus cuculatus</i>	Mountain tailorbird
27	<i>Parus monticolus</i>	Green backed tit
28	<i>Passer montanus</i>	Urasian tree sparrow
29	<i>Pericrocotus ethologus</i>	Long tailed minivet
30	<i>Pericrocotus flammeus</i>	Scarlet minivet
31	<i>Phylloscopus affinis</i>	

	Scientific Name	Local Name
32	<i>Phylloscopus trochiloides</i>	Greenish tree warbler
33	<i>Picus chlorolophus</i>	Lesser yellownape
34	<i>Picus flavinucha</i>	Greater yellownape
35	<i>Psittacula eupatria</i>	Alexandrine parakeet
36	<i>Psittacula krameri</i>	Rose ringed parakeet/ green parrot
37	<i>Pycnonotus flaviventris</i>	Black crested bulbul
38	<i>Rhipidura albicollis</i>	White throated fantail
39	<i>Rhipidura aureola</i>	White browed fantail
40	<i>Rhyacornis fuliginosus</i>	Plumbeous water redstart
41	<i>Seicercus castaniceps</i>	Chestnut crowned warbler
42	<i>Sitta himalayensis</i>	White tailed nuthatch
43	<i>Tesia castaneocoronata</i>	Chestnut headed tesia
44	<i>Turdus boulboul</i>	Grey winged black bird
45	<i>Yuhina flavicollis</i>	Whiskered yuhina
46	<i>Yuhina gularis</i>	Stripe throated yuhina

FLOWERING PLANTS

TREES

	Scientific Name	Local Name
1	<i>Acer campbellii</i> Hk . f.& T.	Kapasi
2	<i>Acer laevigatum</i> W all.	Putli
3	<i>Acer osmastonii</i> Ga mble.	Kapasi
4	<i>Acer thomsonii</i> M iq.	Melo kapasi
5	<i>Actinodaphne sikkimensis</i> M e issn.	Siksiki / Phurke sissi
6	<i>Alnus nepalensis</i> D. Don.	Utis
7	<i>Beilschmiedia sikkimensis</i> Kin g.	Tarsing
8	<i>Betula alnoides</i>	Saur
9	<i>Brassaiopsis hispida</i>	Phutta.
10	<i>Bucklandia populnea</i> R.B r.	Pipli
11	<i>Casearia glomerata</i> Ro xb.	Barkaunle
12	<i>Castanopsis hystrix</i> A. DC.	Katus
13	<i>Toona ciliata</i> M .Roem.	Tooni
14	<i>Cinnamonum bejolghata</i> (Bu ch.Ham) Sweet	Bhale sinkoli
15	<i>Cryptomeria japonica</i> Do n.	Dhupi
16	<i>Elaeocarpus sikkimensis</i> Ma st.	Bhadrase
17	<i>Engelhardtia spicata</i> Blu me.	Mauwa
18	<i>Eriobotrya petiolata</i> Hk .f.	Maya

FLOWERING PLANTS

TREES

	Scientific Name	Local Name
19	<i>Erythrina arborescens</i> Ro xb	Phaledo
20	<i>Eurya acuminata</i> DC .	Sanu jhingani
21	<i>Evodia fraxinifolia</i> Hk .f.	Khanakpa
22	<i>Ficus hookeri</i> M iq.	Nevaro
23	<i>Ficus nemoralis</i> W all.	Dudilo
24	<i>Glochidion acuminatum</i> Mu ell.	Dole malata
25	<i>Hovenia dulcis</i> Th unb.	Bangikath
26	<i>Ilex sikkimensis</i> Ki ng.	Hare/Lise.
27	<i>Juglans regia</i> Li nn.	Okhar
28	<i>Leuceptrum canum</i> Sm .	Ghurpis
29	. <i>Litsaea citrata</i> Bl ume.	Siltimur
30	<i>Macaranga denticulata</i> Mu ell.	Latikath
31	<i>Macaranga pustulata</i> Ki ng.	Sanu malata
32	<i>Machilus edulis</i> King.	Lapche kawla
33	<i>Maesa chisia</i> D on.	Bilaune
34	<i>Mahonia acanthifolia</i> G.D on.	Chutro
35	<i>Meliosma wallichii</i> Pla nch.	Lekh dabdabe
36	<i>Michelia cathcartii</i> Hk .f.& T.	Tite champ
37	<i>Michelia excelsa</i> Bl ume.	Rani champ
38	<i>Nyssa javanica</i> W angerin	Lekh chilauna
39	<i>Pentapanax leschenaultia</i> See m.	Chinde
40	<i>Pieris ovalifolia</i> W all.	Angeri
41	<i>Prunus cerasoides</i> Do n.	Paiyun
42	<i>Prunus nepaulensis</i> C. K.Schn.	Arupate
43	<i>Pyrularia edulis</i> A. DC.	Amphi
44	<i>Quercus fenestrata</i> Ro xb.	Arkawla

VIP VISITS



**Visit of Dr. V.K. Saraswat, Member of Niti Ayog,
to Padmaja Naidu Himalayan Zoological Park**



**Visit of to Padmaja Naidu
Himalayan Zoological Park**

**Visit Of To
Padmaja Naidu
Himalayan
Zoological Park
Workshop And
Training Programmes**





104TH BATCH Dr/Fr TRAINING, WEST BENGAL FOREST SCHOOL, DOWHILL



CENTRAL ACADEMEY FOR CFS, ASSAM



UTTARAKHAND FORESTRY TRAINING ACADEMY, HALDWANI



OUTREACH ACTIVITIES AND CONSERVATION EDUCATION



CELEBRATION OF WORLD ENVIRONMENT DAY



EDUCATIONAL TOUR OF MOUNT CARMEL SCHOOL



EDUCATIONAL TOUR OF LORETO CONVENT



EDUCATIONAL TOUR OF MANEBHANJYANG SCHOOL



EDUCATIONAL TOUR OF R.C. MISSION, MANEYBHANJAYANG



EDUCATIONAL TOUR OF, SOOM TEA ESTATE

AUDIT REPORT



P. DHAR & ASSOCIATES

Chartered Accountants

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22/1, Main Mandir Lane, Kolkata - 700 029
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INDEPENDENT AUDITORS' REPORT

The Member Secretary, West Bengal Zoo Authority

We have audited the accompanying financial statements of **Padmaja Naidu Himalayan Zoological Park, Darjeeling**, ("the Park") which comprise the Balance Sheet as at March 31, 2016, and the Income & Expenditure Account for the year ended on that date, and a summary of significant accounting policies and other explanatory information.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Park in accordance with the accounting principles generally accepted in India along with the Accounting Standards issued by the Institute of Chartered Accountants of India. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation of the financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgement, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Park's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified audit opinion.

Basis for Qualified Opinion

- non-ascertainment and non-provision of accumulated gratuity and leave encashment liability at the year-end on actuarial basis and its consequential impact of the statement of affairs for the year (Para 2 in Annexure to Audit Report) ;





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- *non-ascertainment of actual valuation of stock of Animals and Birds and its consequential impact of the statement of affairs for the year (Pt. 6 of the Notes on Accounts in Note G)*
- *non-capitalisation of outstanding advances and its consequential impact on the state of affairs (Para 4 in Annexure to Audit Report) ;*
- *non-adherence to the Accounting Standard – 12 on Government Grants, particularly with respect to the grant against capital expenditure and its consequential impact on financial statements. (Para 6 in Annexure to Audit Report)*
- *non-updation of Fixed Assets Register and non-verification of Fixed Assets acquired prior to 2015-16 and its consequential impact on the affairs of the Park (Para 3 in Annexure to the Audit Report)*
- *non-accounting of refundable Earnest Money received from unsuccessful tender bidders (Para 13 in Annexure to the Audit Report)*

Opinion

In our opinion and to the best of our information and according to the explanations given to us, except for the effects of the matter described in the Basis for Qualified Opinion paragraph, the financial statements give a true and fair view in conformity with the accounting principles generally accepted in India:

- in the case of the Balance Sheet, of the state of affairs of the Padmaja Naidu Himalayan Zoological Park, Darjeeling as at March 31, 2016; and*
- in the case of the Income and Expenditure Account of the Padmaja Naidu Himalayan Zoological Park, Darjeeling, of the statement of affairs for the year ended on that date;*

Further to our comments in Annexure to the Audit Report, we also report that:

- We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
- In our opinion proper books of account have been kept by the PNHZ Park so far as appears from our examination of the books;
- The Balance Sheet, the Income and Expenditure Account and the Receipts and Payments Account dealt with by this report, read with the Annexure to the Audit Report and Notes on Accounts, are in agreement with the books of account;

Place: Kolkata
Date: 14.02.2017


P. DHAR, Partner
Membership No. 059194
P. DHAR & ASSOCIATES
CHARTERED ACCOUNTANTS
FRN : 325149E



P. DHAR & ASSOCIATES
Chartered Accountants

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Ph: (033) 6520-0486
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Padmaja Naidu Himalayan Zoological Park, Darjeeling

ANNEXURE TO AUDIT REPORT FOR THE YEAR ENDED 31ST MARCH, 2016

- According to the Accounting Policy, all liabilities and receivables for the year were considered in the accounts under audit. The policy was however, not followed in the preceding year and as a result, the current year accounts include the payments / earnings made for the preceding year also. The net financial impact of the same is not readily ascertainable.
- The actuarial liability towards gratuity and leave encashment, in accordance with Accounting Standard (AS-15) on Employee Benefits, as on 31st March, 2016 remains unascertained and hence unaccounted for. We have been informed that since the PNHZ Park, being a part of West Bengal Zoo Authority, the same would be provided for at their end.
- The fixed assets purchased during 2015-16, as informed by the management, have been physically verified during the year under audit. However, Fixed Assets acquired prior to 2015-16 were not physically verified as informed. The Fixed Assets Register as maintained by the Park was found to be pending as on date.
- In the absence of the completion as well as handing over of certificates the following advances against capital nature of expenditure have not been capitalized since long:

a) Advance to Executive Engineer, P.W.D.	Rs. 9.27 Lakhs
b) Advance to Hill Development Work, P.W.D.	Rs. 9.84 Lakhs
c) Advance to Electric Dvn. Siliguri, P.W.D.	Rs. 0.64 Lakhs
d) Advance to Executive Engineer, FHE	Rs. 4.05 Lakhs

Immediate steps should be taken to adjust/settle/reconcile the above advances, which are lying unadjusted for more than a decade.

- Reconciliation of Advance to Staff, with respect to the very old outstanding amounting to Rs. 65,531.50, remaining unadjusted / unrealized since considerable period, has not been made in view of the absence of any documentation/ records etc. Further, no provision has been in accounts in respect of the said amount.

An advance of Rs. 3,92,272.00 receivable from Mr. A. K. Jha, Ex-Director of the Park is lying unadjusted since long.





P. DHAR & ASSOCIATES
Chartered Accountants

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☎ : (33) 5521 5486
Regional Office:
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Chennai, Hoopry - 712 101, ☎ : 9021992148
e-mail: p.dhar, dhara@adhaman.com

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- The society does not maintain separate accounts for plan funds as well as non plan funds as received from WBZA, both the funds are transferred by WBZA in one bank account i.e SBI, Darjeeling as maintained by the Park. Expenditure are met from the said account.
- The forest land as transferred to the park includes some parts in the possession of the fixed demand holders from which the park has not collected any rent nor renewed their licenses since 2000 subsequent to the direction of the Forest Department, West Bengal under Forest Conservation Act, 1980. In our opinion, steps should be taken to regularize the same.
- In terms of the change in basis as well as rate of depreciation from earlier year, depreciation for the year was decreased by an amount of Rs. 5,42,417.40 which has a consequential impact of the statement of affairs for the year and corresponding value of the related assets at the Balance Sheet date (refer to Para 10 in Notes on Accounts in Note G)
- Depreciation on False Ceiling and on Library Books has been charged on 100% basis during the year as per Management Policy (refer to Para 11 in Notes on Accounts in Schedule - G)
- Income Tax on payments (Rs. 1,62,971/-) made to ABP Ltd. on account of Advertisement was not deducted.
- No Internal Audit was undertaken for the year. Considering the volume and nature of transactions, an in-depth internal audit is very much required to have proper internal control.
- Confirmation of depositing Provident Fund on payment for labour supplied by the outsourcing agency namely Sri Manoj Gurung, Darjeeling was not available with the Park and the consequential liability of the Park, if any, could not be readily ascertainable.
- Earnest Money received from Tender Bidders for Rs. 16.95 lakhs lying with PNHZP Authority as on 31.03.2016 (refundable to the unsuccessful bidders), was neither deposited into bank nor accounted for.

Place: Kolkata
Date : 14.02.2017


P. DHAR, Partner
Membership No. 059194
P. DHAR & ASSOCIATES
CHARTERED ACCOUNTANTS
FRN : 325149E

PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK
WEST BENGAL ZOO AUTHORITY
Balance Sheet As At 31st March, 2016

Previous Year	Liabilities	Particulars	Amount (Rs.)	Previous Year	Assets	Particulars	Amount (Rs.)
21.27.40,11.9.54	CORPUS FUNDS:-				Fixed Assets:-		
	Prize Development Fund		77,50,75,419.06		Fixed Assets		23,46,82,610.57
	OTHER FUNDS:-				Animals & Birds (Live Stock)		87,20,11,79.90
15.71.4.31.04	Prize Society Fund		1,91,67,48.83				
1.11.55,1.8.50	Capital Zoo Authority Port Fund						
31.07.00.00	West Bengal (WBZ) Park Fund						
6.11.201.00	Current Liabilities:-				Current Assets, Loans & Advances:-		
	Dues to Taxes (TDA)		(30,57,855.03)		Advances		33,55,179.50
	Earnest Money				Current Stock		2,24,194.70
	Acc. Last Account		13,65,371.00		Inventory		1,52,783.00
11.56,10.1.00	Acc. Received During Year				Stock in Shop		8,95,517.70
	Loss - Retained During The Year						
	Security Money						
	As per Govt. Records		56,58,274.00				
42,16,779.00	Acc. Incurred During Year		26,19,201.00				
	Less - Retained During The Year		(11,21,277.00)				
90,16,578.00	Govt. Collection Rem. Money		7,09,276.76		Flowing Reserve:-		
	Outstanding Liabilities for Payment		40,92,439.03		Car. in Hand		75,567.50
					Govt. Stock A/c No. - 31010000077165		8,19,719.70
					State Bank of India A/C No. - 300832456382		3,09,16,207.05
					Treasury Account		20,07,116.00
24,75,60,665.98	Balance Sheet		25,25,66,810.71	24,75,60,665.98			25,25,66,810.71

For P. DHAR & ASSOCIATES
 Firm Reg. No. - 325148E
 Chartered Accountants
 For P. Dhar & Associate,
 Chartered Accountants
 (Member No. 141/02/17)
 (Practising Office)
 Prater - 400 No.
 West. No. - 308714

Member Secretary
 West Bengal Zoo Authority
 K. S. Das

Director
 Padmaja Naidu Himalayan Zoological Park
 Darjeeling

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**Note-A Padmaja Naidu Himalayan Zoological Park
PNHNP Development Fund as on 31.03.2016**

Particulars	Amount (in Rs)	Amount (in Rs)
OPENING BALANCE		25,27,70,129.54
Add:- During the Year		
Plan Fund Central Zoo Authority	1,31,36,198.00	
Plan Fund Govt Of West Bengal	53,06,000.00	
Plan Fund West Bengal Zoo Authority	1,23,20,206.00	
Less:- Depreciation of Fixed Assets	1,84,57,115.49	
Closing Balance		1,23,05,288.51
		<u>76,50,45,418.05</u>



**Note-B Padmaja Naidu Himalayan Zoological Park
PNHNP Society Fund as on 31.03.2016**

Particulars	Amount (in Rs)	Amount (in Rs)
OPENING BALANCE		-3,72,74,418.04
Add:- During the Year		
Non-Plan Grant form Govt Of West Bengal	14,04,828.00	
Non-Plan Grant form Govt Of India	5,62,000.00	
Non-Plan Grant form WBZA	7,94,00,000.00	
Sale of Fixed Assets	1,500.00	
Less:- Transferred to Non-Plan Fund	6,32,61,108.78	
Closing Balance		1,81,07,219.22
		<u>-1,91,67,198.82</u>

Note-C

Padmaja Naidu Himalayan Zoological Park
Schedule of Fixed Assets as on 31.03.2016

DEPRECIATION FOR THE YEAR ENDED 31ST MARCH, 2016

DESCRIPTION OF ASSETS	RATE	W.D.V. AS ON		ADDITION UP TO 30.09.2015	ADDITION AFTER 30.09.2015	TOTAL AMOUNT	DEPRECIATION DURING THE YEAR	W.D.V. VALUE AS ON 31.03.2016
		01.04.2015	30.09.2015					
Air Conditioner	10%	8,45,750.00	-	-	-	8,45,750.00	84,375.00	7,59,375.00
Animal & Birds Enclosure	5%	1,78,86,280.51	16,75,196.00	86,80,878.00	-	2,82,42,354.51	11,95,096.00	2,70,47,260.51
Audio Visual / Music System	10%	10,95,683.68	-	-	-	10,95,683.68	1,09,568.00	9,86,115.68
Binocular	10%	6,94,348.20	-	-	-	6,94,348.20	69,435.00	6,24,913.20
Boundary	5%	3,07,25,414.74	-	-	-	3,07,25,414.74	1,53,11,771.00	2,87,14,143.74
Building & Sheds	5%	6,19,24,450.11	43,24,811.00	40,89,085.00	-	7,03,38,316.11	34,04,669.00	5,67,33,627.11
Cellless Digital Phone	10%	13,410.00	-	-	-	13,410.00	1,341.00	12,069.00
Carpets	10%	768.13	-	-	-	768.13	77.00	691.13
CCTV System & Networking	10%	1,56,83,584.38	-	4,48,200.00	-	1,11,31,784.38	10,90,769.00	1,00,41,025.38
Coffee Machine	10%	16,415.10	-	-	-	16,415.10	1,642.00	14,773.10
Computer System	60%	77,97,897.25	1,39,944.00	3,07,477.00	-	79,45,318.25	18,54,343.00	13,90,365.25
Dehumidifier	15%	1,91,363.50	17,27,450.00	-	-	19,10,859.50	2,86,629.00	16,24,230.50
Digital Camera	10%	10,80,797.26	99,000.00	-	-	11,79,797.26	1,17,880.00	10,57,317.26
Electric Installation	10%	1,45,13,774.73	-	20,80,442.00	-	1,65,94,216.73	15,55,400.00	1,50,38,816.73
Telescope & Endovision System	60%	2,11,043.02	-	-	-	2,11,043.02	1,26,626.00	84,417.02
EP/SBX / Intercom Telephone	15%	1,68,688.00	-	-	-	1,68,688.00	25,303.00	1,43,385.00
False Ceiling	100%	12,92,770.80	-	-	-	12,92,770.80	12,92,770.80	-
Fax Machine and Phone	15%	41,445.68	-	17,535.00	-	58,980.68	7,532.00	51,448.68
Fire Extinguisher	15%	3,87,519.53	-	-	-	3,87,519.53	58,128.00	3,29,391.53
Fish Aquarium	60%	4,25,421.36	-	-	-	4,25,421.36	2,55,253.00	1,70,168.36
Fitness Equipments	15%	79,712.95	-	-	-	79,712.95	11,957.00	67,755.95
Furniture	10%	40,92,676.71	26,300.00	-	-	41,18,976.71	4,11,898.00	37,07,078.71
Generator	15%	29,94,470.33	-	-	-	29,94,470.33	4,34,171.00	24,60,309.33
Geyser	10%	1,33,308.35	14,400.00	12,365.00	-	1,60,069.35	15,389.00	1,44,680.35
Heater	10%	17,721.73	-	-	-	17,721.73	1,772.00	15,949.73
Himalaya Nature Infr Centre	10%	5,07,768.73	-	-	-	5,07,768.73	50,777.00	4,56,991.73
Hybride Solar Light	10%	30,46,396.50	-	-	-	30,46,396.50	3,04,640.00	27,41,756.50
Incinerator Machine	15%	5,09,758.88	-	-	-	5,09,758.88	89,964.00	5,00,794.88
Inverter	10%	48,195.00	-	-	-	48,195.00	4,820.00	43,375.00
Kitchen Appliances	15%	1,95,111.00	-	-	-	1,95,111.00	29,267.00	1,65,844.00
Label Printer	60%	6,42,075.00	-	-	-	6,42,075.00	3,85,209.00	2,56,866.00
Laboratory Equipments	15%	5,07,312.70	-	-	-	5,07,312.70	76,097.00	4,31,215.70
Land & Land Development / Fencing	-	2,20,18,612.45	-	-	-	2,20,18,612.45	-	2,20,18,612.45



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Utility Works	100%	1,77,522.69	-	-	1,77,522.69	1,77,522.69	1,77,522.69
Machinery & Equipments	15%	3,58,310.00	-	-	14,41,167.00	2,16,175.00	17,24,992.00
Metal Detector	10%	2,05,519.85	-	-	2,05,519.85	20,552.00	1,84,967.85
Motor Car & Tiller	40%	3,36,533.02	-	-	3,26,553.02	97,960.00	2,28,593.02
Projector	80%	3,85,493.93	-	-	3,86,493.93	2,37,896.00	1,58,597.93
Public Address System	10%	6,48,000.00	-	-	6,48,000.00	64,800.00	5,83,200.00
Publication & Signage	5%	83,75,735.10	-	-	95,85,620.10	4,77,441.00	91,08,179.10
Refrigerator	10%	2,72,842.35	-	-	2,87,442.16	28,009.00	2,59,433.16
Road & Fencing	5%	1,44,15,705.68	-	-	1,44,15,705.68	7,20,785.00	1,36,94,920.68
Sanitation Sys. for Animal Enclosure	5%	1,03,10,577.12	-	-	1,03,10,577.12	5,15,529.00	97,95,048.12
Showcase	10%	37,34,181.00	-	-	37,34,181.00	3,73,418.00	33,60,763.00
Snake Tong	5%	14,700.00	-	-	14,700.00	745.00	13,955.00
Stabilizer	10%	8,255.56	-	-	8,255.56	826.00	7,429.56
Suspension Bridge	5%	20,15,305.30	-	-	20,15,385.30	1,00,769.00	19,14,616.30
Television	10%	15,06,073.53	-	-	15,20,973.53	1,57,097.00	13,68,876.53
Thermohygraphs	10%	1,651.30	-	-	1,653.30	165.00	1,488.30
Type Writer	15%	1,409.09	-	-	1,409.09	711.00	1,398.09
Vacuum Cleaner	10%	8,395.15	-	-	8,493.15	840.00	7,653.15
Vet Hospital Equipments	10%	25,86,537.90	-	-	25,86,537.90	2,58,554.00	23,27,983.90
Vision Camera (Sony)	10%	25,566.08	-	-	25,566.08	2,557.00	23,009.08
Washing Machine	10%	54,626.70	-	-	53,625.70	5,363.00	48,262.70
Water Filter	10%	28,775.23	-	-	28,775.23	2,878.00	25,897.23
Water Purifier	10%	50,664.43	-	-	50,664.43	5,066.00	45,598.43
Water Purifier / Hot Blowet	10%	7,530.24	-	-	7,530.24	753.00	6,777.24
Water Works	5%	21,22,721.09	-	-	21,22,721.09	1,06,136.00	20,16,585.09
Weighing Scale	10%	54,403.85	-	-	54,405.85	5,441.00	48,964.85
Xerox/Coater Machine	10%	2,02,473.18	-	-	2,02,475.18	20,248.00	1,82,227.18
Sub- Total (A)		22,67,89,498.06	1,04,26,201.00	1,57,24,027.00	25,29,39,726.59	1,84,57,115.49	23,44,87,610.57



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Padmaja Naidu Himalayan Zoological Park
Inventory of Animals, Birds & Reptiles As on 31st March, 2016 and their Value

Sl. No.	Seri-Id	Name	OPENING BALANCE AS ON 1.4.2015		ADDITION BY			TOTAL		DECREASE BY CASUALTY OR EXCHANGE		CLOSING BALANCE AS ON 31.03.2016			
			Qty.	Rate	Amount	Birth	Exchange	Purchase	Amount	Qty.	Amnt.	Casualty	Exchange	Qty.	Rate
ANIMALS															
1		Short Leopard	13						13		4		9		
2		Tiger Bengal	3					3					3		
3		Clouded Leopard	1					1					1		
4		Himalayan Wolf	10			1		11		4		7			
5		Bear Himalayan	4					4					4		
6		Red Panda	14			6	1	20		2		18			
7		Valk	2					2					2		
8		Leopard Common	6					6		2		4			
9		Leopard Common	4	1,000	4,000.00			4	4,000.00			4	1,000	4,000.00	
10		Himalayan Tiger	8					8					8		
11		Himalayan Bear	11			2		13		2		11			
12		Himalayan Mon	29					29				29			
13		Himalayan Palm Civet	3					3		3					
14		Asian Palm Civet	3			3		6				6			
15		Leopard Cat	2					2					2		
16		Jungle Cat	2					2					2		
17		Jackal	5					5					5		
18		Small Lark	11					11					11		
19		Mongoose	6					6					6		
20		Himalayan Serpal	11					11					11		
21		Bengal Deer	25					25					25		
22		Bengal Deer	5					5		17		12			
23		Bengal Deer	5					5					5		
24		Asian Sambar	11					11		9		2			
25		Asian Sambar	2					2		1		1			
26		Python	2					2					2		
27		Russet Viper	2					2					2		
TOTAL			183		1,000	4,000.00	4	4	199	4,000.00	53	22	144	1,000	4,000.00



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Sl. No.	Name	OPENING BALANCE AS ON		ADDITION BY		TOTAL		DECREASE BY CASUALTY OR EXCHANGE		CLOSING BALANCE AS ON 31.03.2016	
		Qty.	Rate	Qty.	Amount	Qty.	Amount	Qty.	Amount	Qty.	Amount
BIRDS											
16	Thissayam (Browns) Mixed (Thissayam)	4				4					
17	Blue (Blue) (Blue)	5	1,07,871.62			5	5,37,071.00				5,37,071.00
18	Thissayam (Blue) (Blue)	17				20		3			
19	Thissayam (Blue) (Blue) (Blue)	7				11		4			
20	Thissayam (Blue) (Blue) (Blue)	4				4					
21	Thissayam (Blue) (Blue) (Blue)	1				1					
22	Thissayam (Blue) (Blue) (Blue)	20				21		1			
23	Thissayam (Blue) (Blue) (Blue)	43				43					
24	Thissayam (Blue) (Blue) (Blue)	22				22					
25	Thissayam (Blue) (Blue) (Blue)	54				54					
26	Thissayam (Blue) (Blue) (Blue)	10				10					
27	Thissayam (Blue) (Blue) (Blue)	2	96,628.60			2	96,628.60				96,628.60
28	Thissayam (Blue) (Blue) (Blue)	2	4,00,000.00			2	4,00,000.00				4,00,000.00
29	Thissayam (Blue) (Blue) (Blue)	2	3,00,000.00			2	3,00,000.00				3,00,000.00
30	Thissayam (Blue) (Blue) (Blue)	1	50,000.00			1	50,000.00				50,000.00
31	Thissayam (Blue) (Blue) (Blue)	2	1,70,000.00			2	1,70,000.00				1,70,000.00
32	Thissayam (Blue) (Blue) (Blue)	1	1,70,000.00			1	1,70,000.00				1,70,000.00
33	Thissayam (Blue) (Blue) (Blue)	2	84,483.00			2	84,483.00				84,483.00
34	Thissayam (Blue) (Blue) (Blue)	2	1,70,000.00			2	1,70,000.00				1,70,000.00
35	Thissayam (Blue) (Blue) (Blue)	2	1,70,000.00			2	1,70,000.00				1,70,000.00
36	Thissayam (Blue) (Blue) (Blue)	13	13,48,530.00			13	13,48,530.00				13,48,530.00
TOTAL		251	32,50,164.00	37		278	32,50,164.00	36		242	32,46,163.30
GRAND TOTAL		360	32,50,164.00	33		427	32,50,164.00	109		312	32,46,163.30



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Note-E Padmaja Naidu Himalayan Zoological Park
Outstanding Liabilities for Expenses as on 31.03.2016

Particulars	Amount (in Rs)	Amount (in Rs)
Fees of Professional Services	12,088.00	
Wages of Contract Employees	8,000.00	
Printing & Stationery	453.00	
Advertisements & Publications	97,115.00	
Repair & Maintenance (Hardware)	1,75,777.00	
Food for Animals	8,32,815.00	
Air/Car Pay & Allowances	17,07,034.00	
P.O.L. for Generators	21,380.00	
P.O.L. for Vehicles	25,131.00	
Wages for Contractual Labour	4,02,201.00	
Wages for Contractual Employees	4,10,807.00	
Telephones Charges	8,503.00	
Research & Education	19,660.00	
Scumlin	97,290.00	
Electric Charges	1,60,793.00	
Misc. Expenses	12,701.00	
Travelling Expenses	5,432.00	
Administrative Charges (P/E/C/DU)	74,322.00	
Car Hire Charges	19,217.00	
Less: Interest Earned		40,92,459.00
Closing Balance		40,92,459.00



Note-F Padmaja Naidu Himalayan Zoological Park
Advances as on 31.03.2016

Particulars	Amount (in Rs)	Amount (in Rs)
Advance to Executive Engineer P&E	4,04,593.00	
Advance to Executive Engineer, PWD	9,27,150.00	
Advance to Group C Staff	7,000.00	
Advance to PWD for Hill Development Work	9,84,150.00	
Advance to Staff	65,531.50	
Deposit with P & T for Telephone	10,000.00	
Advance to Ex Director A K Jha	3,92,272.00	
Electrical Division, Siliguri	64,516.00	
Electricity Deposit	4,80,192.00	
Medical Advance	8,375.00	
Permanent Advance (Mir Ishring Tamang)	5,000.00	
Security Deposit for Gas (Roshni)	3,400.00	
Closing Balance		33,55,179.50
		33,55,179.50

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PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK
WEST BENGAL ZOO AUTHORITY
Income & Expenditure Accounts for The Year Ended 31st March, 2016

Previous Year	Expenditure	Amount (Rs.)	Amount (Rs.)	Previous Year	Income	Amount (Rs.)	Amount (Rs.)
	Veterinary Charges	1,470.00					
37,15,353.00	Procurement of Animals & Birds	1,000.00					
	Maintenance of Enclosure	8,51,988.00					
76,37,467.00	Wages for Contractual Labour	24,60,674.00					
	Gas bags Coaling	1,15,587.00					
30,000.00	CC. Power Tax	500.00					
	Repair & Maintenance Slipsize	8,79,797.00					
23,50,877.00	Research & Education	1,16,102.78					
1,23,840.00	Medicine	3,33,898.00					
	P.O.L. Vehicles	1,97,030.00					
	P.C.L. Generator						
28,20,231.00	Decorative Laminator	20,62,169.00					
1,02,71,696.00	Repair & Maint. Of Building	5,54,054.00					
	Repair & Maintenance of Electrical	6,54,328.00					
	Repair & Maint. of Roads & Culverts	58,789.00					
	Repair & Maint. of Furniture & Fixtures	16,28,300.00					
	Repair & Maint. of Machine & Tools & Plants	3,157,754.00					
	Repair & Maintenance (Hardware)	6,000.00					
	Repair & Maintenance of Water Line	85,113.00					
35,61,234.00	Repair & Maint. of vehicle	2,27,816.00					
	Misc. Exp for Operations & Maintenance	25,549.00					
1,148,761.00	Animal Training Expenses	64,671.00					
27,64,058.00	Computer Expenses	2,43,950.00					
	Sauwari		2,65,95,579.78				
7,16,35,682.00			6,32,61,106.78	7,16,35,682.00			6,32,61,108.78

For P. DHAR & ASSOCIATES
 Firm Reg. No. - 325140E
 Chartered Accountants
 14/04/17
 Chartered Accountant
 (PRAKASH) Member ship No.
 Partner
 Mem. No. - 159136

Kyaden
 Member-Secretary
 West Bengal Zoo Authority

Director
 Padmaja Naidu Himalayan Zoological Park

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PADMAJA NANDI HIMALAYAN ZOOLOGICAL PARK
WEST BENGAL ZOO AUTHORITY
Receipts & Payments Accounts For The Year Ended 31st March 2016.

Dr.	Receipts	Amount (Rs.)	Payments	Amount (Rs.)	Cr.
			By: Salary & Grant of Incharge	18,70,493.00	
			By: Animal Training Expenses	13,649.00	
			By: Misc. Expenses for Operational & Maintenance	4,28,951.00	
			By: Computer Expenses	4,51,429.00	
			By: Sundry	1,86,700.00	
			By: Diesel & Maint. of Vehicle	81,091.00	
			By: Showers Expenses	-	
			By: Garages Drawing	2,057.00	
			By: Repair & Maint. of Tools & Cutters	7,01,071.00	
			By: Repair & Maint. of Machine & Tools & Plant	19,35,391.00	
			By: Repair & Maintenance (Houseware)	38,70,271.00	
			By: Fees of Professional Services	5,25,465.00	
			By: ROPF & Maintenance of Electric	6,77,054.00	
			By: Electricity Charges	38,11,958.00	
				4,37,40,391.00	
			By: 5000 Govt WB Non Plan G-III	7,59,54,177.00	
			By: Animal Adoption scheme	1,50,000.00	
			By: Trade & Job Sale	7,35,000.00	
			By: Misc. Receipt	600.00	
				7,62,60,000.00	
			By: Tripes Centers	34,000.00	
			By: Siding & Shed	1,78,91,750.00	
			By: Tents Installation	5,57,281.00	
			By: Machinery & Equipment	90,91,311.00	
			By: Plant & Misc. Item	11,54,491.00	
			By: Epidemic	26,75,280.00	
			By: Salaries	24,09,885.00	
			By: Computer	4,67,416.00	
			By: Fuel, Oil & Faturo	26,300.00	
				7,61,56,118.00	
			By: S.S. Bank A/c No. 31430200771745	1,07,19,919	
			By: State Bank of India A/c No. - 01111310002	1,29,16,507.00	
			By: Trade Pay Account	70,02,184.00	
			By: Cash-in-hand	23,017.00	
				1,30,72,810.00	
Total		31,24,50,712.00	Total		31,24,50,712.00

14/04/17

S or P. DHAR & ASSOCIATES
 Firm Reg. No. - 3251ABE
 Chartered Accountants
 Memberships No.
 Firm No.
 (Pravin Dhar)
 Partner
 Mem. No. - 0391/14

Kyabon
 Member Secretary
 West Bengal Zoo Authority

[Signature]
 Director
 Padmaja Nandi Himalayan Zoological Park
 Director
 Padmaja Nandi Himalayan
 Zoological Park
 Darjeeling

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PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK, DARJEELING

NOTE - G

NOTES FORMING INTEGRAL PART OF ACCOUNTS FOR THE YEAR ENDED 31.03.2016

1. Significant Accounting Policies

- The financial statements have been generally prepared on mercantile basis except in case of License Fees and Bonus, which are accounted for on cash basis.
- Grants in Aid from Government or any other sources, Gate collection money and income from any sources are deposited with WBZA. Expenditure are met from the Fund received from WBZA. However, Funds, as transferred, not utilized at the year-end is shown under PNHZP Society Fund – Note B.
- Fixed assets are stated at cost, which is inclusive of all incidental expenses incurred at the time of acquisition/installation/commissioning less depreciation which is provided for on written down value of the assets at the rates considered appropriate by the WBZA Management. Depreciation on additions made during the second half of the year is provided for half year and on additions before that is for the whole year based on the dates of acquisition/installation/commissioning.
- The valuation of animals and birds has been made at the cost of acquisition. The loss of animals/birds due to casualty is charged to revenue. However no value is put against addition by way of gift/ exchange or birth of the animals/birds.
- The stock of consumable stores (Medicine and Stock at Souvenir Shop) is valued at cost while consumable stores (including stationery items and publication on zoc) are directly charged to revenue.
- Gratuity and Leave Encashment payable to the employees is accounted for on cash basis.

2. According to the Accounting Policy, all liabilities and receivables at the end of the year were considered in the accounts. The policy was, however, not followed in the preceding year and as a result, the current year accounts include the payments / earnings made for the preceding year also.



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3. The management and the running of the Padmaja Naidu Himalayan Zoological Park has been handed over to the West Bengal Zoo Authority (a society under West Bengal Societies Registration Act XXXVI of 1961) vide Notification No 3841-For/FR/O/11M-27/2002 dated 14th September, 2010 issued by Department of Forests, Govt. of West Bengal.
4. PNHZP Development Fund includes the value of land of approximately 27 hector which the society is holding on 31st March, 2016.
5. The forest land as transferred to PNHZP includes some parts in the possession of the fixed demand holders from which the park has not collected any rent nor renewed their licenses since 2000 subsequent to the direction of the Forest Department, West Bengal under Forest Conservation Act, 1980.
6. Consequent upon the Resolution passed at the Annual General Meeting held on 23rd August, 1997 no adjustments towards additions in value on account of birth/gift/exchange of animals and birds are being made in the accounts as per continuing practice.
7. The PNHZP management has been given permissive possession of 7 hector land for the purpose of development of Satellite Zoo Park and pheasant breeding centre at Dowhill, Kurseong by the Directorate of Forests, Govt. of West Bengal vide letter Ref No 4428/CS/2M-379/08 dated 29/09/2008. However the ownership of the aforesaid land and property handed over by the Directorate of Forest will remain with Forest Directorate.
8. The PNHZP management has been given permissive possession of 5 hectare land for the purpose of Off Display Conservation Breeding Centre at Topkeydara Block under Sanchal Wild Life Sanctuary, Darjeeling by the Directorate of Forests, Govt. of West Bengal vide letter Ref No 11613/CS/2M-379/08 dated 18.03.2011. However the ownership of the aforesaid land and property handed over by the Directorate of Forest will remain with Forest Directorate.
9. Advance to Staff includes

Particulars	Opening Balance As on 01.04.2015	Advance given	Advance refunded/ Adjusted	Closing Balance as on 31.03.2016
Mr. A. K. Jha, Ex-Director	392272.00	0	0	392272.00
Old Unreconciled advances	65531.50	0	0	65531.50



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10. The basis and the rate of depreciation on Assets have been changed during the year to keep the Assets under specified Block of Assets as per guidelines of WBZA. Consequently, depreciation was charged less by an amount of Rs. 5,42,417.40 during the year due to the change, as said, from earlier year.
11. The value of False Ceiling and Library Books was fully depreciated during the year.
12. Fixed Assets purchased during the year were physically verified by the Management.
13. All personal account ledger balances, whether debit or credit are subject to confirmation.
14. Steps are being taken to regularise income tax and secretarial matters.
15. Previous year's figures have been regrouped and re-arranged, wherever necessary.

Director

Per our report of even date


Member Secretary
West Bengal Zoo Authority

Place: Kolkata
Date: 14.02.2017


P.DHAR, PARTNER
Membership No. 059194
P.DHAR & ASSOCIATES
CHARTERED ACCOUNTANTS
FRN: 325149E



PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK

**GOVERNMENT OF WEST BENGAL
DARJEELING (INDIA)**

Tel : 91-354-2254250 (Ch.) | 2253709 (Off) | 22542522(Fax)

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