

ANNUAL REPORT 1996-97



केन्द्रीय चिड़ियाघर प्राधिकरण
Central Zoo Authority

**FIFTH
ANNUAL REPORT
(1996-97)**



**केन्द्रीय चिड़ियाघर प्राधिकरण
Central Zoo Authority**

(Ministry of Environment & Forests)

Headquarters

Barrack No. 4, Bikaner House,

Shahjahan Road

New Delhi-110 011



Faint, illegible handwriting or markings scattered across the page.

CHAPTER - I

INTRODUCTION

ROLE OF THE CENTRAL ZOO AUTHORITY

Zoos are among those institutions of antiquity that have survived a number of transitions. The present generation of zoos in India represent the age of control and have their origin as small animal collections attached to gardens and parks. The first public zoo in India was set up at Madras in 1855. This was followed up by setting up of several zoos by various princely states like Trivandrum, Junagarh, Jaipur, Baroda, Udaipur, Bikaner and Jodhpur. Public zoos were also established during the same period at Bombay and Calcutta. Zoos were established at Lucknow and Gwalior in 1921. These zoos mainly aimed at providing the city dwellers an opportunity to pass their leisure time with their family members under picturesque surroundings. The superintendents and the directors of the zoos had more of a park mentality and were concerned little about the health and upkeep of the animals.

Government of India has been quite sensitive to the role of zoos as awareness centres for wildlife conservation. It decided to establish the first naturalistic modern zoo at Delhi, soon after independence. Several State Governments followed suit and large and naturalistic zoos were set up at Hyderabad, Guwahati, Chandigarh, Kanpur, Bhopal, Patna, Bhubaneswar, Vishakhapatnam, Madras and Tirupati.

However, owing to rapid industrialization and urbanization, the need for quick recreation became a feature of time and more and more new animal facilities, which paid little attention

to the welfare aspects of the animals and often subjected the animals to cruelties, were created. The Central Zoo Authority has been set up by the Central Government to stop the mushrooming of these unplanned and illconceived zoos and to provide a new orientation to the existing zoos of the country so that they can provide the zoo inmates quality of life that is congenial to their mental and physical health. This is crucial for planned breeding and providing genetically and socially viable progeny.

The main functions of the Central Zoo Authority, assigned under the Wild Life (Protection) Act, are :-

- (a) to specify the minimum standards for housing, upkeep and veterinary care of the animals kept in a zoo;
- (b) to evaluate and assess the functioning of the zoos with respect to the prescribed standards or norms;
- (c) to recognise or derecognise zoos;
- (d) to identify endangered species of wild animals for purposes of captive breeding and assigning responsibility in this regard to a zoo;
- (e) to coordinate the acquisition, exchange and loaning of animals for breeding purpose;
- (f) to ensure maintenance of stud books of endangered species of wild animals bred in captivity;

- (g) to identify priorities and themes with regard to display of captive animals in zoos;
- (h) to coordinate training of zoo personnel in India and outside India;
- (i) to coordinate research in captive breeding and educational programmes for the purpose of zoos;
- (j) to provide technical and other assistance to zoos for their proper management and development on scientific lines;
- (k) to perform such other functions as may be necessary to carry out the purposes of this Act with regard to zoos.

The Central Zoo Authority was constituted on 4.2.1992 with the Minister of Environment and Forests as Chairman. The Authority was reconstituted on the 3rd February, 1995. Its present constitution is as follows :

- 1. Minister of State for Environment and Forests - Chairperson
- 2. Secretary to the Government of India, Ministry of Environment & Forests - Member
- 3. Inspector General of Forests, Ministry of Environment & Forests - Member



Technical Committee in its meeting

4. Additional Inspector General of Forests and Director, Wildlife Preservation, Ministry of Environment & Forests - Member
5. Joint Secretary (Financial Advisor) Ministry of Environment & Forests - Member
6. Shri Ashok Kumar, B-5/22, Safdarjang Enclave, New Delhi-110029 - Member
7. Shri Pushp Kumar B-3-833/97, Kamalapuri, Hyderabad. - Member
8. Ms. Sally Walker Pioneer House, P.B. No. 1688, Peelamadu, Coimbatore, Tamil Nadu. - Member
9. Dr. Iqbal Malik 540-Asian Games Village, New Delhi-110049. - Member
10. Ms. Sheila Pasricha E-4, Palm Spring, 104, Cuffe Parade, Colaba, Mumbai-400005. - Member

11. Mrs. Rakhi Sarkar, C/o Sunday Magazine, Calcutta. - Member

12. Shri S.C. Sharma, Central Zoo Authority - Member Secretary

To encourage greater technical inputs in the deliberation of the Central Zoo Authority, Director, Wildlife Institute; Chairman, Animal Welfare Board Director, Indian Veterinary Research Institute and President, Indian Zoo Directors Association are the permanent invitees to the meetings of the Central Zoo Authority.

Overview of the activities of the Central Zoo Authority during the year 1996-97

1. Evaluation of the present status of management of various zoos and grant of recognition to the zoos which can serve the cause of conservation.
2. Upgrading the housing, upkeep and health care of zoo animals by providing financial assistance and technical skills to zoo personnel.
3. Coordinate exchange programmes of animals between zoos, keeping in view the objective of enhancing the conservation role.
4. Support scientific studies regarding use of biotechnology for improved husbandry and propagation of endangered species of wild animals.

CHAPTER - II

IMPORTANT DECISIONS OF THE CENTRAL ZOO AUTHORITY

The meeting of the Central Zoo Authority was held on 23.11.1996. Important issues discussed in the meeting and the decisions taken, briefly are:-

1. National Zoo Policy for the country was finalised.
2. Guidelines for establishment of safaris as an extension of zoos were approved.
3. Involvement of Non-Governmental Organisations in zoo education programmes should be encouraged.
4. Relevance of mini zoos and deer park from socio-ecological point of view should be studied.
5. A Centre for Conservation of Endangered Species of Wildlife should be setup for acquiring professional skills in techniques of genome banking and molecular characterisation and their effective use in National conservation efforts.
6. While discharging their role as rescue centres for confiscated animals, zoos must ensure that the quality of life available to these animals is not compromised and they receive highest standards of upkeep and health care.



Science in the service of conservation

CHAPTER - III

EVALUATION OF ZOOS

1. EVALUATION OF LARGE, MEDIUM AND SMALL ZOOS

By the end of financial year 1996-97 all the large, medium and small zoos had been evaluated. All the evaluated zoos, except 4 small zoos were granted recognition. The list of zoos granted recognition and refused recognition is at Annexure-I

Second round of evaluation of large, medium and small zoos has also started. The following zoos have been evaluated in the second round of evaluation:

1. Sri Chamarajendra Zoological Garden, Mysore.

2. Thiruvanthapuram Zoo.
3. Van Vihar National Park, Bhopal
4. Jaipur Zoo, Jaipur.
5. Kamla Nehru Prani Sangrahalaya, Indore.

2. EVALUATION OF MINI & MOBILE ZOOS

During the year under report, ninety mini zoos and two mobile zoos were evaluated. Recognition has been granted to following 39 mini zoos. Decision in case of 2 mini zoos is yet to be taken. Recognition has been refused to the two mobile zoo.

1. Andhra Pradesh	1. Alisagar Deer Park	Alisagar
2. Delhi	1. Deer Park	Hauz Khas
3. Himachal Pradesh	1. Renuka Zoo/Lion Safari	Sirmur
	2. Dhauldhar Nature Park	Gopalpur
	3. Rewalsar Zoo	Mandi
	4. Pheasantry	Chail (Solan)
4. Karnataka	1. Mini Zoo/Children Park	Gulbarga
	2. Bhutnal Deer Park	Bijapur
	3. Kittur Rani Channamma Nisardhama Bhutramanhati	Belgaum
	4. Children Park/Mini Zoo	Gadag
	5. Mini Zoo, Tungabhadra Dam	Tungabhadra Dam

	6.	Namada Chulume deer park	Tumkur
	7.	Kempabudi Deer Park, Bangalore	Bangalore
5.	Kerala	1.	Hill palace Zoo Thiruvantha- puram
6.	Maharashtra	1.	Deer Park Gangapur
		2.	Snake Park & Aviary Pune
		3.	Vasant Smruti Mrig Vihar Umarasara
		4.	Somnath Prkalpa Zoo Chandrapur
		5.	Deer Park Chandrapur
		6.	Maharaja Sahaji Chhatrapati Zoo Kolhapur
		7.	Pratap Singh Udyan Zoo Sangli
		8.	Mahatma Gandhi Udyan Zoo Solapur
7.	Madhya Pradesh	1.	Tata Export Deer Park Dewas
8.	Mizoram	1.	Deer Park Thenzawal
9.	Orissa	1.	Gharial Research & Conservation Unit Tikarapara Angul
		2.	Garhmandaran Deer Park Bolangir
		3.	Kunaria Deer Park Nayagarh
		4.	Motijharan Deer Park Sambalpur
10.	Punjab	1.	Bir Moti Bagh Mini Zoo Patiala
		2.	Deer Park, Neelon Neelon, Ludhiana
		3.	Mini Zoo, Bansar Bag Sangrur
		4.	Deer Park, Bir Talab Bhatinda
11.	Tamil Nadu	1.	Nilgiri Deer Park Ooty
12.	Uttar Pradesh	1.	Deer Park Buland Shahr

13. West Bengal

- | | | |
|----|---------------------------------|----------|
| 2. | Malsi Deer Park | Dehradun |
| 3. | Rampur Deer Park
& Aviary | Kalsi |
| 4. | Chital Park | Khatauli |
| 1. | Chital Park | Jhargram |
| 2. | West Bengal Snake
Park, Badu | Barasat |

The list of the zoos' refused recognition is at Annexure-II.



From cages to naturalistic enclosures

CHAPTER - IV

PLANNED BREEDING OF ENDANGERED SPECIES

1. A workshop on husbandry and planned breeding of Lion tailed macaque was organised at Coimbatore in October, 1996. Laurence Gledhill, International Studbook keeper for the species; Jonathan D. Ballou, Population manager, National Zoological Park, Washington and Bob Lacy, Population geneticist, Chicago Zoological Society were the resource persons from U.S.A. The workshop was attended by representatives from all zoos having substantial Lion tailed macaque population. After 3 days of continuous deliberations, a master plan for planned breeding of the species was prepared and circulated to concerned Indian zoos for implementation.
2. Dr. Angela Glaston, the International studbook keeper for red panda prepared a master plan for planned breeding of red panda, which is being implemented by the Padmaja Naidu Himalayan Zoological Park, Darjeeling and Himalayan Zoological Park, Sikkim.
3. As a follow-up measure for planned breeding programme of Bengal tigers, transponders have been fixed in all animals that are to be used as founder animals in the programme. Animals are to be moved to designated Zoos soon. A tentative plan for movement of lions for planned breeding has been prepared and the Gujarat forest department has been requested to communicate their concurrence, so that the animals can be moved to various zoos.
4. A meeting of zoo directors from major zoos of the country was held in November, 1996. The directors resolved to place greater emphasis on conservation of endangered species in the country. The display of exotic species would be taken up only to the extent that the conservation objective of the zoos is not compromised.



New born hornbills at Baroda Zoo

ANIMAL EXCHANGE PROGRAMME BY ZOOS

The Technical committee of the Central Zoo Authority met on 23.5.1996, 29.10.1996, 18.11.1996 and 11.2.1997. The committee reviewed the exchange proposals submitted by zoos. On the basis of decision taken by the committee and under the powers delegated to Member Secretary proposals for exchange, loaning and gifting of zoo animals within the country and zoos outside India were approved. The list of approved proposals is at Annexure III.

IMPORTANT BIRTHS IN INDIAN ZOOS
During the year under report, following

important births of rare and endangered species were reported from various zoos :-

S. No.	Name of the Zoo	Species	No. of Birth
1.	Padmaja Naidu Himalayan Zoological Park, Darjeeling	Red panda	1
2.	Sakkarbaug Zoo, Junagadh	Wild Ass	2
3.	Sri Chamarajendra Zoological Park, Mysore	African black Rhino	1
4.	Sepahijala Zoo, Agartala	Phayre's leaf monkey	1
5.	Arignar Anna Zoological Park, Chennai	Wild dog Lion tailed macaque	7 2
6.	Madras Crocodile Bank, Mamallapuram	King cobra Ganges soft shelled turtle	29 6
7.	Sundervan Nature Discovery Centre Ahmedabad	Rock python	13
8.	Nehru Zoological Park, Hyderabad	Indian pied hornbill Mouse deer Gaur	2 1 1
9.	Sayaji Baug Zoo, Baroda	Indian pied hornbill	2

REINTRODUCTION PROGRAMME FOR SWAMP DEER

Central zoo authority approved a programme for reintroduction of captive bred swamp deers from Lucknow zoo in Jalda-Para

Wildlife Sanctuary in West Bengal. In the first phase 4:7 swamp deer are being made available for this programme. This is an important step in the direction of zoos contributing towards wildlife conservation.

CHAPTER - V

EDUCATION AND AWARENESS

1. The Central Zoo Authority and the Indian Zoo Directors' Association continued to bring out the quarterly news letter for sharing of technical information on important aspects of zoo management in the country. A zoo year book for India was also published and released in November, 1996. The second volume of the zoo year book is likely to come out next year. The Central Zoo Authority also decided to bring out a compendium of research papers on upkeep, nutrition, health care and breeding biology of zoo animals that have been published by the zoo personnel in India.
2. Nandankanan Biological Park, Bhubneshwar and Sanjay Gandhi Biological Park, Patna continued to organise guided tours for the zoo visitors, to make the visits more rewarding and interesting.
3. Participation of non-governmental organisations in Zoo Education Programmes at various zoos was supported.
4. National Zoological Park, New Delhi organised a special campaign for students of slum schools visiting the zoo during the Wildlife Week, with a view to inculcate empathy for wildlife in them.
5. Zoo Outreach Organisation continued to bring out Zoo Zen and Zoo's Print. The two magazines continued to be an important source of technical information on scientific management of zoos.
6. Press conferences, television programmes and radio talks highlighting the conservation role of zoos were organised.



Education Programme by 'Vatavaran' at National Zoological Park, Delhi

CHAPTER - VI

RESEARCH & TRAINING

1. A three days workshop was organised for the zoo veterinarians at Indian Veterinary Research Institute (IVRI) during June, 1996. The workshop was attended by 21 veterinarians from various zoos. The participants were given exposures to modern aspects of systematic diagnoses of diseases, prophylactic measures, upkeep, nutrition and husbandry of endangered species. A demonstration on performing vasectomy on Cheetal was also organised.
2. A two weeks capsule course for zoo directors was organised at Nandankanan Biological Park, Bhubneshwar. The trainees were apprised of the modern concept of zoo designing, collection planning, master planning and management planning. Information on planned breeding programmes for endangered species was also provided.
3. 15 days training programme for zoo keepers was organised at Kanpur Zoo in which 17 keepers from different states participated. Two keepers from Nepal also participated. The trainees were given lectures and practical demonstration on various aspects of zoo keeping.
4. Shri Jagannadha Rao, Deputy Director, Arignar Anna Zoological Park, Vandalur, Chennai and Dr. Vinay Gorhe from Peshwe Park zoo, Pune participated in a three weeks course on conservation of endangered species at Jersey Wildlife Preservation Trust, U.K. during July and August, 1996.
5. Member Secretary, Central Zoo Authority participated in the meeting of the Conservation Breeding Specialist Group and the International Union of Zoo Directors in Denver, U.S.A. during August, 1996.



6. Centre for Cellular & Molecular Biology (CCMB) continued to work on the projects related with assisted reproduction and DNA Fingerprinting of lions and tigers in zoos. Samples from lions and tigers of wild origin were also analysed. The research findings have yielded very interesting results and have proved that the inbreeding depression has not affected the

heterozygosity and the breeding capability of the animals pertaining to these species. With a view to enlarge the scope of study, the Central Zoo Authority has decided to support a project for establishing a separate centre for conservation of endangered species, where modern methodology in the field of biotechnology and molecular biology would be used for research purposes.

CHAPTER - VII

INTERNATIONAL COOPERATION

1. American Zoos have offered to give six pairs of Nilgiri tahrs to India for planned breeding of this endangered species.
2. Darjeeling Zoo received a pair of Markhor and Himalayan tahr from Helsinki Zoo.
3. Member Secretary, Central Zoo Authority visited Yokohama Zoo, Japan during March, 1997 on the request of Yokohama City to advise them on the planning of their new zoo "EURASIA".



Himalayan Tahr at Darjeeling Zoo

CHAPTER - VIII

ADMINISTRATIVE MATTERS

The details of the sanctioned posts under the Central Zoo Authority and the incumbents on each post are as follows:

Name of the Post	Scale of the Post	No. of the Posts	Name of incumbent
Finance officer	2200-4000	1	Sh.M.C. Bhatnagar
Private Secretary	2000-3500	1	Sh. P.K. Kokel (since Jan., 1997)
Accountant	1640-2900	1	Vacant
Data Processing Assistant	1600-2660	1	Sh. Dinesh Kr. Dharni (since May, 1996)
Personal Assistant	1400-2300	1	Smt. Seema Burreja (since June, 1996)
U.D.C.	1200-2040	1	Sh. R.S. Rawat
L.D.C.	950-1500	1	Sh. Ajay Manocha
Driver	950-1500	1	Sh. Hari Singh
Peon	750-940	2	S/Sh. Thakur Dass & Pramod Jha

The efforts to fill the posts of Evaluating and Monitoring officer and Scientific officer did not yield any results during this year also No person with requisite qualifications is willing to join in the scale of 3000-4500.

Shri Bipul Chakraborty continued to work on contract basis to assist the Member secretary in discharge of the statutory duties, particularly evaluation of zoos and preparation of database on zoos. Dr. J.H. Desai continued to work on consultancy basis for evaluation of zoos and

provide technical assistance to the Member Secretary on various aspects of zoo management, including zoo designing.

Proposals were submitted for strengthening the infrastructure of the office of the authority to the Administrative committee in its meeting held in November 1996. With the approval of the committee and the Central Zoo Authority one retired person has been employed as "Registrar". His duty is to attend odd jobs in the Central Zoo Authority.

CHAPTER - IX

FINANCIAL MATTERS

During the year , Financial Assistance worth Rs. 220 lakhs was provided to 21 zoos. The list of zoos which received financial assistance from the Central Zoo Authority during 1996-97 is at Annexure IV.

Annual Accounts

The annual accounts of the Central Zoo Authority were prepared and submitted to the

Principal Director of Audit, Scientific Department on 21.5.1997. The audit of accounts was carried out by a team of the office of the Principal Director of Audit Scientific Departments from 24.6.1997 to 4.7.1997. The copies of the audited accounts for the year 1996-97 containing receipts and payments, income and expenditure account and the balance sheet together with the audit certificate are at annexure V.

A. ZOOS GRANTED RECOGNITION

S. No.	Name of the State	Name of the Zoo	Place
LARGE ZOOS			
1.	Andhra Pradesh	1. Indira Gandhi Zoological Park.	Visakhapatnam
		2. Nehru Zoological Park.	Hyderabad
2.	Assam	1. Assam State Zoo	Guwahati.
3.	Bihar	1. Sanjay Gandhi Biological Park	Patna
4.	Delhi	1. National Zoological Park	Delhi
5.	Gujarat	1. Kamla Nehru Zoological Garden	Ahmedabad
		2. Sakkarbaug Zoo	Junagarh
6.	Karnataka	1. Sri Chamarajendra Zoological Garden	Mysore
7.	Maharashtra	1. Veermata Jijabai Bhosale Udyan	Mumbai
8.	Orissa	1. Nandankanan Biological Park.	Bhubaneswar
9.	Punjab	1. M. C. Zoological Park, Chhatbir	Chandigarh
10.	Tamil Nadu	1. Arignar Anna Zoological Park, Vandalur.	Chennai
11.	Uttar Pradesh	1. Kanpur Zoological Park	Kanpur
		2. Prince of Wales Zoological Park	Lucknow

S. No.	Name of the State	Name of the Zoo	Place
12.	West Bengal	1. Zoological Garden Alipore	Calcutta
MEDIUM ZOOS			
1.	Arunachal Pradesh	1. Zoological Park	Itanagar
2.	Bihar	1. Jawaharlal Nehru Biological Park.	Bokaro
3.	Gujarat	1. Sayajibaug Zoo	Vadodara
4.	Keral	1. Thiruvananthapuram Zoo	Thiruvananthapuram
5.	Karnataka	1. National Park Bannerghatta	Bangalore
6.	Madhya Pradesh	1. Gandhi Zoological Park.	Gwalior
		2. Maitri Bagh Zoo	Bhilai
		3. Van Vihar National Park.	Bhopal
7.	Manipur	1. Manipur Zoological Park.	Imphal
8.	Rajasthan	1. Jaipur Zoo	Jaipur
		2. Jodhpur Zoo	Jodhpur
9.	Tamil Nadu	1. Children's Park, Guindy	Chennai
		2. Madras Crocodile Bank Trust	Mamallapuram
		3. Chennai Snake Park Guindy	Chennai
		4. V. O. C. Park Mini Zoo	Coimbatore
10.	Tripura	1. Sepahi Jala Zoological Park.	Agartala

S. No.	Name of the State	Name of the Zoo	Place
SMALL ZOOS			
1.	Andaman & Nicobar	1. Mini Zoo, Haddo	Port Blair
2.	Andhra Pradesh	1. Mahavir Harina Vanasthali Deer Park 2. Sri Venkateswara Zoological Park.	Hyderabad Tirupati
3.	Bihar	1. Bhagwan Birsa Biological Park 2. Tata Steel Zoological Park	Ranchi Jamshedpur
4.	Gujarat	1. Indroda Nature Park 2. Nature Park 3. Rajkot Zoo	Gandhinagar Surat Rajkot
5.	Goa	1. Bondla Zoo	Panaji
6.	Himachal Pradesh	1. Himalayan Nature Park	Kufri
7.	Haryana	1. Rohtak Zoo	Rohtak
8.	Kerala	1. State Museum & Zoo	Trissur
9.	Karnataka	1. Bellary Children's Park cum zoo	Bellary
10.	Maharashtra	1. Aurangabad Municipal Zoo 2. Maharajbag Zoo 3. Peshwa Park Zoological Garden 4. Sanjay Gandhi National Park	Aurangabad Nagpur Pune Mumbai

S. No.	Name of the State	Name of the Zoo	Place
11.	Madhya Pradesh	1. Kamla Nehru Prani Sangrahalaya	Indore
12.	Meghalaya	1. Lady Hydari Park	Shillong
13.	Mizoram	1. Aizawl Zoo	Aizawl
14.	Rajasthan	1. Udaipur Zoo 2. Zoological Garden	Udaipur Bikaner
15.	Sikkim	1. Himalayan Zoological Park, Bulbuley	Gangtok
16.	Uttar Pradesh	1. Sarnath Deer Park	Varanasi
17.	West Bengal	1. Padmaja Naidu Himalayan Zoological Park.	Darjeeling

B. ZOOS NOT GRANTED RECOGNITION

1. Balbhavan Children Dreamlands, Rajkot, Gujarat
2. Kota Zoo, Kota, Rajasthan
3. Krishna Sayar Snake Park, Burdwan, West Bengal
4. Marble Palace Zoo, Calcutta, West Bengal

LIST OF ZOOS NOT GRANTED RECOGNITION

S. No.	Name of the State	Name of the Zoo	Place
1.	Andhra Pradesh	1. Sabari Mini Zoo	Prathipadu
2.	Gujarat	1. Fertilizer Nagar Deer Park.	Vadodara
3.	Himachal Pradesh	1. Nehru Pheasantry	Manali
		2. Mini/Deer Park	Kalapur
4.	Karnataka	1. Kempagouda Deer Park	Bangalore
		2. Kaiwara Tapovana Chintamani	Kolar
		3. Sorakayalahalli Children & Deer Park	Kolar
		4. Antharaganga Children Park	Kolar
		5. Minakanagurki Zoo	Kolar
		6. Induvel Nature Park	Mandya
		7. Mini Zoo, Kondaji	Chitradurga
		8. Children Zoo	Dharwad
		9. Children Park	Sirsi
		10. Shreekshetra Sogal Someshwar Deer Park	Belgaum
		11. Karadigudda Deer Park	Dharwad
		12. Deer Park NMDC	Bellary
		13. Deer Park, Haliyal	Uttar Kanada
		14. Lal Bagh Deer Park	Bangalore
5.	Kerala	1. Crocodile Farm	Nayyar Dam
6.	Maharashtra	1. Jawaharlal Nehru Udyan, Pandav lane	Nasik
		2. Nehru Garden	Sangamner

S. No.	Name of the State	Name of the Zoo	Place
		3. Snake Park Shikshan Mandal	Kolhapur
		4. Hutatma Bag Prani Sangrahalaya	Solapur
		5. Amte's Animal Park & Orphanage-cum Rescue Home.	Allapalli
		6. Pal Wild Animal orphanage	Jalgaon
		7. Rani Bag Zoo	Buldana
		8. Sh. Gajanan Vatika	Buldana
		9. Vivekanand Vidya Mandir Zoo	Buldana
7.	Madhya Pradesh	1. Vikram Vatika	Ujjain
		2. Malhar Smrjti Mandir Zoo	Dewas
8.	Punjab	1. Deer Park (Rose Garden)	Ludhiana
		2. Mini Zoo Ram Bagh	Amritsar
		3. Raj Bhavan Mini Zoo	Chandigarh
		4. Deer Park, Thermal Colony	Bhatinda
9.	Orissa	1. Chilka Deer Park	Puri
		2. Harishankar Deer Park	Bolangir
10.	Tamil Nadu	1. St. Joseph Mini Zoo	Conoor
11.	Uttar Pradesh	1. Van Chetna Kendra Narora	Bulandshahar
		2. Mrig Vihar Van Chetna	Moth(Jhansi)
		3. Shukratal Chital Park	Muzafarnagar
		4. Deer Park	Mangalore
		5. Wymdhum Mini Zoo	Mirzapur
		6. Van Chetna Kendra Brookland Estate	Musoorie
		7. Vanya Jantu Vihar Dak Pathar	Dehradun
12.	West Bengal	1. Garmandaran Deer Park	Garmandaran Hooghly

S. No.	Name of the State	Name of the Zoo	Place
		2. Kumari Kangsabati Deer Park	Bonpakuria, Bankura
		3. BITM Animolorium	Calcutta
		4. Sri Rama Krishna Ashram Deer Park	Belari, Howrah
		5. Ramakrishna Misson Vidyalaya	Narendrapur, South 24 Parganas
MOBILE ZOOS			
1.	Tamil Nadu	1. Manjunatha Mobile Zoo	Chennai
2.	West Bengal	1. Chitra Zoo	Calcutta

EXCHANGE PROPOSALS APPROVED BY THE CENTRAL ZOO AUTHORITY DURING 1996-97

A. EXCHANGE OF ANIMALS BETWEEN INDIAN ZOOS.

S. No.	Name of the zoo	Animals acquired	Animals given	Recipient Zoo/ Organisation	Remarks
1.	Nandankanan Zoo Bhubneshwar	Golden langur 0:1	Asiatic lion 0:1	Mysore Zoo	Providing mate for single animal
2.	-Do-	Swamp deer 2:4	White tiger 1:1	Lucknow Zoo	Subdividing gene pool of swamp deer & white tiger
3.	Mysore Zoo	Wolf 1:1	Swamp deer 1:1	Nehru Zoo, Hyderabad	
		Sangai 0:1	Fallow deer 2:0		Providing mate for single animal
		White tiger 1:0	Black swan 1:1		
		Sloth bear 0:2	Sloth bear 2:0		Providing mate for unpaired animals
4.	Arignar Anna Zoo, Chennai	Red jungle fowl 2:2 Malabar squirrel 2:2 King cobra 2:2	Asiatic lion 2:0	Mini Zoo, Shimoga	-do-
5.	-Do-	Ruffed lemur 0:2 Black swan 1:2	Nilgiri langur 1:1	Mysore Zoo	-do-
6.	National Zoo, Delhi	-	Sangai 2:3	Lucknow Zoo	Subdividing gene pool of sangai
7.	-Do-	-	Sangai 2:3	Ranchi Zoo	-do-

S. No.	Name of the zoo	Animals acquired	Animals given	Recipient Zoo/ Organisation	Remarks
8.	Sundervan Nature Discovery Centre Ahmedabad.	-	Rock python 2:2	Ahmedabad Zoo	Subdividing gene pool of rock python
9.	Mini zoo, Bharuch	-	Rock python 0:0:2 Marsh crocodile 0:0:2	Ahmedabad Zoo	Closure of Bharuch Zoo
10.	Padmaja Naidu Himalayan Zoo, Darjeeling	-	Tibetan Wolf 1:1	Himalayan Zoo Sikkim.	Subdividing gene pool of Tibetan wolf.
11.	Nehru Zoo, Hyderabad	Rhino 0:1	Bengal tiger 2:2	Ranchi Zoo	Providing mate for rhino
12.	Alipore Zoo, Calcutta.	Elephant 0:1	Elephant 1:0	Jaldhapara Wildlife Sanctuary	Acquisition of young female
13.	Lucknow Zoo	-	Swamp deer 4:7	Jaldhapara Wildlife Sanctuary	Reintroduction purpose.

B. EXCHANGE / GIFT BETWEEN INDIAN AND FOREIGN ZOOS.

1.	Arignar Anna Zoo, Chennai	Giraffe 1:1	Elephant 0:1	Marine World Africa, U.S.A.	
2.	-Do-	Malayan sun bear 2:2	-	Pingtung Rescue Centre, Taiwan	Gift
3.	-Do-	Syrian brown bear 0:1	-	Tierpark Dählholzli Berne.	Providing mate for brown bear.
4.	Mysore Zoo	Geoffroy's marmoset 1:1 Hamadryas baboon 2:2 Barbery sheep 1:1	Sloth bear 1:1	Frankfurt Zoo	Gift

S. No.	Name of the zoo	Animals acquired	Animals given	Recipient Zoo/ Organisation	Remarks
5.	-Do-	Orangutan 1:1	-	Colchester Zoo, U.K.	Gift
6.	Do-	Mandrill 0:2	-	Melbourne Zoo, Australia.	Providing mate for unpaired animals.
7.	-Do-	-	Elephant 1:0	President of Sri Lanka	Gift
8.	Nandankanan Zoo, Bhubneshwar	Malayan sun bear 2:2	-	Pingtung Rescue Centre, Taiwan	Gift
9.	Nandankanan Zoo Bhubneshwar	Grant zebra 4:6	Elephant 0:2	TISCH family Zoo, Jerusalem	
10.	Nehru Zoo, Hyderabad	Malayan sun bear 2:5	-	Pingtung Rescue Centre, Taiwan	Gift
11.	-Do-	Orangutan 2:3	-	-do-	Gift
12.	Assam State Zoo, Guwahati	Malayan sun bear 2:2	-	-do-	Gift
13.	National Zoo, Delhi	Giraffe 1:1	Rhino 1:0	Tama Zoo, Japan	
14.	-Do-	Jaguar 1:1	Blackbuck 1:1	National Zoo, Sri Lanka	
15.	Alipore Zoo,	Grant zebra 1:1 Chimpanzee 1:1	Elephant 0:1	Twycross Zoo, U.K.	Providing mate for unpaired animals
16.	Govt. of Tamil Nadu	-	Elephant 1:1	Reunion Island	Gift
C. EXCHANGE PROPOSALS APPROVED BY THE MEMBER SECRETARY					
1.	Nandankanan Zoo	Black swan 1:1	Emu 1:1	Mysore Zoo	

S. No.	Name of the zoo	Animals acquired	Animals given	Recipient Zoo/ Organisation	Remarks
2.	-Do-	-	Gharial 2:2 American caiman 1:1	Tata Zoo, Jamshedpur	
3.	Bokaro Zoo,	Bengal tiger 0:1	Bengal tiger 1:0	Indore Zoo	Exchange of gene pool.
4.	Bhilai Zoo	Grant zebra 0:1	Grant zebra 1:0	Arignar Anna Zoo, Chennai	Providing mate for single animal.
5.	National Zoo Delhi	Bengal tiger 1:1	Cape buffalo 1:0	M.C. Zoological Park, Chatbir	
6.	Van Vihar Zoo, Bhopal	-	Bengal tiger 0:2	Nandankanan Zoo Bhubneshwar	
7.	Rustomji Deer Park, Gangtok	-	Spotted deers 2:6	Himalayan Zoo, Sikkim	
8.	Alipore Zoo Calcutta	-	Sambar 1:1	Wildlife X Wing, West Bengal	Reintroduction purpose
9.	Sakkarbaug Zoo, Junagadh	-	Leopard 1:0	Rajkot Zoo,	
10	Bir Motibagh, Patiala	-	Black buck 6:24	Bir Bhuneri x Nature Park	
11.	National Zoo Delhi	Sloth bears 1:1	-		Rescued

Annexure-IV

FINANCIAL GRANT RELEASED TO ZOOS DURING THE YEAR 1996-97

NAME OF THE ZOO	Improvement of Animal Housing & Security for Animals (1)	Improvement of Veterinary Care & Hygienic Supply of Food & Water (2)	Maintenance of Healthy Environment in the Zoo (3)	Zoo Education & Awareness (4)	TOTAL
1. INDIRA GANDHI ZOOLOGICAL PARK, VISAKHAPATNAM, ANDHRA PRADESH	2,00,000.00	28,25,000.00			30,25,000.00
2. VEERMATA JIJABAI BHOSALE UDYAN & ZOO, BYCULLA (EAST), MAHARASHTRA	27,67,000.00				27,67,000.00
3. BHAGWAN BIRSA BIOLOGICAL PARK, RANCHI, BIHAR	20,37,500.00				20,37,500.00
4. NANDANKANAN BIOLOGICAL PARK, BHUBANESWAR, ORISSA	4,00,000.00	5,00,000.00	7,00,000.00		16,00,000.00
5. SANJAY GANDHI BIOLOGICAL PARK, PATNA, BIHAR	15,00,000.00	75,000.00			15,75,000.00
6. ZOOLOGICAL GARDEN, ALIPORE, WEST BENGAL	15,23,357.00				15,23,357.00
7. PRINCE OF WALES ZOOLOGICAL GARDENS, LUCKNOW, UTTAR PRADESH	13,50,000.00		1,00,000.00		14,50,000.00
8. NEHRU ZOOLOGICAL PARK, HYDERABAD, ANDHRA PRADESH	3,00,000.00	4,00,000.00	3,50,000.00	2,00,000.00	12,50,000.00
9. VAN VIHAR NATIONAL PARK, BHOPAL, MADHYA PRADESH	10,62,000.00				10,62,000.00
10. JAIPUR ZOO, JAIPUR, RAJASTHAN	6,80,000.00	3,00,000.00	50,000.00		10,30,000.00
11. NATURE PARK, SURAT, GUJARAT	10,00,000.00				10,00,000.00
12. ARIGNAR ANNA ZOOLOGICAL PARK, VANDALUR, TAMIL NADU	3,75,000.00	62,500.00	1,00,000.00	1,50,000.00	6,87,500.00
13. PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK, DARJEELING< WEST BENGAL	6,38,500.00				6,38,500.00
14. GANDHI ZOOLOGICAL PARK, GWALIOR MADHYA PRADESH		4,25,000.00	2,00,000.00		6,25,000.00
15. MANIPUR ZOOLOGICAL GARDEN, IMPHAL, MANIPUR	4,51,500.00				4,51,500.00
16. SRI CHAMARAJENDRA ZOOLOGICAL GARDEN, MYSORE, KARNATAKA	4,37,500.00				4,37,500.00
17. ZOOLOGICAL PARK, KOHIMA, NAGALAND	2,50,000.00				2,50,000.00
18. CHILDREN'S CORNER, GUINDY, TAMIL NADU	62,500.00	1,48,000.00			2,35,500.00
19. SRI VENKATESWARA ZOOLOGICAL PARK, TIRUPATI, ANDHRA PRADESH	80,000.00	1,00,000.00		25,000.00	2,00,000.00
20. ZOOLOGICAL GARDEN, BIKANER, RAJASTHAN	1,12,500.00			20,000.00	1,22,500.00
21. KANPUR ZOOLOGICAL PARK, KANPUR, UTTAR PRADESH	50,000.00				50,000.00
TOTAL	1,52,77,357.00	48,35,500.00	15,00,000.00	3,95,000.00	2,20,07,857.00

or say Rs. 220.08 Lakh

Central Zoo Authority
(Ministry of Environment and Forests)
Receipts and Payments Account for the Year ending 31/03/97

Receipts	Rs.	Payments	Rs.
To Opening Balance on 1.4.96	6,95,694.10	By Grant to Zoos	2,20,07,857.00
To Grant-In-Aid from Central Government.	3,30,00,000.00	By Salaries	8,13,586.00
To Recoveries from Pay Bills adjustable by other Depts./Bodies.	57,280.00	By Wages	85,455.00
To Recoveries of Festival Advance.	600.00	By Stationery	41,642.00
To Misc. Receipts.		By Printing & Binding	67,283.00
(i) Fees received from Zoos with applications of Recognition/Renewal	12,300.00	By Furniture, Fixture & Furnishing	4,79,991.00
(ii) Refund of Security	3,000.00	By Equipment & Machinery	9,646.00
(iii) Staff Car recoveries	5,050.00	By Conveyance & Cartage	11,871.00
(iv) Other Misc. Recoveries	2,05,170.00	By Travelling Allowance	4,93,491.00
(v) Interest on Fixed Deposit	0.00	By Fees & Honorarium	14,400.00
To Income Tax	80,086.00	By Telephone Charges	0.00
To Licence Fee	7,860.00	(i) Deposit	1,43,867.00
		(ii) Charges	44,756.00 ✓
		By Books & Publications	23,095.00
		By Postage & Telegram	3,30,103.00
		By Evaluation of Zoos	3,266.00
		By Bank Commission	5,160.00
		By Refreshment	4,29,559.00
		By Misc. Expenses	7,85,258.00
		By Advertisement & Publicity	24,672.00
		By O.T.A.	60,000.00
		By Hiring Accommodation for M.S.	14,447.00
		By Medical Expenses	0.00
		By Festival Advance	17,77,482.00
		By Training, Education, International Workshop and conferences	5,000.00
		By Cash security for Leased Accommodation	27,989.00
		By Petrol, Oil & Lubricant Account	13,290.00
		By L / S & Pension Contribution	80,086.00
		By Income Tax Paid	57,280.00
		By remittance to other Govt. Depts./other Bodies deduction from staff taken on Foreign Services	0.00
		By Audit Fees	31,83,000.00
		By Research Work Projects	0.00
		By GPF Advance	9,857.00
		By Bonus	30,14,746.00
		By Cash Balance	3,905.00
		At Bank	5,000.00
		In Hand	0.00
		Imprest	0.00
Total	3,40,67,040.10	Total	3,40,67,040.10

Details of Opening Balance

(i) Cash in Hand	4,550.00
(ii) Cash at Bank	6,86,144.10
(iii) Imprest	5,000.00

Member Secretary
Central Zoo Authority
New Delhi.

Central Zoo Authority
(Ministry of Environment and Forests)
Income & Expenditure for the Year ending 31/03/97

Expenditure		Income	
To Grant to Zoos	2,20,07,857.00	By Grant-In-Aid from Central Government.	3,30,00,000.00
To Research Work Projects	31,83,000.00	By Fees received from Zoos with applications of Recognition/Renewal	12,300.00
To Salaries	8,13,586.00	By Recoveries from Pay Bills adjustable by other Depts./Bodies.	57,280.00
To Wages	85,455.00	By Misc.Receipts.	5,220.00
To Stationery	41,642.00	By Interest on Fixed Deposit	0.00
To Printing & Binding	67,283.00	By Income Tax	80,086.00
To Conveyance & Cartage	11,871.00	By Licence Fee	7,860.00
To Travelling Allowance	4,93,491.00	By Excess of Expenditure over Income	0.00
To Fees & Honorarium	14,400.00		
To Telephone Charges	1,43,867.00		
To Postage & Telegram	23,095.00		
To Evaluation of Zoos	3,30,103.00		
To Bank Commission	3,266.00		
To Refreshment	5,160.00		
To Misc. Expenses	4,29,559.00		
To Advertisement & Publicity	7,85,258.00		
To Bonus	9,857.00		
To O.T.A.	24,672.00		
To Hiring Accommodation for M.S.	60,000.00		
To Medical Expenses	14,447.00		
To Training, Education, International Workshop and Conferences	17,77,482.00		
To Petroi, Oil & Lubricant Account	27,989.00		
To L /S & Pension Contribution	13,290.00		
To Income Tax Paid	80,086.00		
To Audit Fees	0.00		
To Remittance to other Govt. Depts./ other Bodies deduction from staff taken on Foreign Services	57,280.00		
To Excess of Income over Expenditure	26,58,750.00		
	3,31,62,746.00		3,31,62,746.00

Member Secretary
Central Zoo Authority
New Delhi.

CENTRAL ZOO AUTHORITY
Balance Sheet as on 31st March, 1997.

LIABILITIES	AMOUNT	Schedule Number	ASSETS	Amount	Schedule Number
1. Central Zoo Authority Fund	52,60,876.10	I	1. Fixed Assets		
2. Sundry Creditors			D) Furniture	7,85,927.00	II
3. Gifts and Donations			II) Vehicles	2,33,256.00	III
4. Current Liabilities and Provision			III) Equipment & Machinery	9,46,433.00	IV
5. Sundry Deposits			2. Books and Periodicals	2,51,609.00	V ✓
			3. Advances		VI
			4. Security Deposits	20,000.00	VII
			5. Gifts and Donations		
			6. Sundry Debtors		VIII
			7. Investments (CZA Fund)		
			CASH AND BANK BALANCE		
			Cash at Bank	30,14,746.10	
			Cash in Hand	3,905.00	
			Imprest with Admn. Officer	5,000.00	
TOTAL	52,60,876.10		TOTAL	52,60,876.10	

Member Secretary
Central Zoo Authority
New Delhi

AUDIT CERTIFICATE

I have examined the Receipts and Payment Account, Income and Expenditure Account for the year ended 31 March, 1997 and the Balance Sheet as on 31 March, 1997 of the Central Zoo Authority, New Delhi. I have obtained the information and explanations that I have required and, subject to the observations in the appended Audit Report, I certify, as a result of my audit that in my opinion these Accounts and Balance Sheet are Properly drawn up so as to exhibit a true and fair view of the state of affairs of the Central Zoo Authority, New Delhi according to the best of information and explanations given to me and so shown by the books of the organisation.

New Delhi
Dated 16 Dec' 97

Principal Director of Audit
Scientific Departments

Front Cover - Great Indian Hornbill at Nandankanan
Zoological Park, Bhubneswar

Back Cover - Water Birds at Van Vihar National Park, Bhopal

Printed at - Amarnath Press (P) Ltd. 4628354, 4646155

