

ANNUAL REPORT 1999-2000



केन्द्रीय चिड़ियाघर प्राधिकरण
Central Zoo Authority

Photo : Front—Young Pangoline born at Nandankanan Zoological Park, Bhubaneswar
Back—Acquatic Bird Aviary at Nehru Zoological Park, Hyderabad

Ninth Annual Report (1999-2000)

Central Zoo Authority

(Ministry of Environemnt & Forests)

Headquarters

Barrack No. 4, Bikaner House

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New Delhi-110011

CHATER 1

THE CENTRAL ZOO AUTHORITY

The Central Zoo Authority was constituted as statutory body under the Wildlife (Protection) Act, in 1992, with a view to check mushrooming of ill-planned and ill-conceived zoos in the country and to provide a new orientation to the existing zoos so that the zoo animals get quality life congenial to their mental and physical health.

The functions assigned to the Central Zoo Authority, under the Wildlife (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 studbooks 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 purposes 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.

Minister of Environment & Forests is the Chairman of the Authority. At present, followings are the Member of the Authority:

1. Secretary to the Government of India, Ministry of Environment & Forests
2. Inspector General of Forests & Special Secretary, Ministry of Environment & Forests
3. Additional Inspector General of Forests (Wildlife), Ministry of Environment & Forests
4. Shri Samar Singh, Secretary General, WWF, India, New Delhi
5. Dr. Asad R. Rahmani, Director, BNHS, Mumbai
6. Dr. Nanditha C Krishna, Hon. Director, C. P. R. Environmental Education Centre, Chennai
7. Shri Divyabhanusinh Chavda, Vice President, Taj Group of Hotels
8. Shri S. C. Dey, Secretary General, Global Tiger Forum, New Delhi
9. Shri Khushwant Singh, Eminent Writer, New Delhi
10. Dr. Ashok Singh, (Retd. Chief Wildlife Warden, (UP), Allahabad

Shri P.R. Sinha is the Member Secretary of the Authority at present.

To encourage greater technical inputs in the deliberation of the Central Zoo Authority, Director, Wildlife Institute of India, Dehradun; President, Veterinary Council of India, New Delhi and the President Indian Zoo Directors' Association are the permanent invitees to the meetings of the Central Zoo Authority.

For carrying out the functions of the Authority, two committees, namely, Administrative Committee and Technical Committee have been constituted.

The Administrative Committee is chaired by the Inspector General of Forests & Special Secretary, Ministry of Environment & Forests. The Committee has four Members. The Member Secretary of the Authority is the convenor of the Committee. The functions of the Committee are:-

- To screen and approve the proposals regarding creation of posts and upgradation of existing posts in the authority.
- To approve proposals for awarding consultancies and Contract Appointments to Group 'A' Posts.
- Approval of proposal for grant of research projects to various institutions.
- To approve annual budget of the Central Zoo Authority.
- Any other matter referred to it by the Central Zoo Authority.

The Technical Committee is chaired by the Addl. Inspector General of Forests (Wildlife), Ministry of Environment & Forests. The Committee has seven members and the Member Secretary is the convenor

of the Committee. The functions of the Committee are:-

- To approve proposals for release of financial assistance to various zoos.
- To approve exchange programme of zoo animals between Indian Zoos.
- To make recommendations regarding exchange of animals with foreign zoos accepting gift animals from foreign zoos and to gift animals to foreign zoos.
- To approve proposals for organising training programmes, workshops and meetings on various aspects of zoo management.
- Screening of Research Projects on issue related with zoos for funding by the authority.
- To approve the proposals for grant of recognition to mini zoos.
- To make recommendations regarding grant of recognition to large, medium and small zoos.
- Any other function that may be assigned to it by the Central Zoo Authority from time to time.



Press briefing on Zoos by MEF and Chairman, CZA, Thiru T.R. Baalu.

Overview of the activities of the Central Zoo Authority during the year 1999-2000

1. With reference to standards and norms prescribed under "Recognition of Zoo Rules, 1992" evaluation of the Zoos was continued. Conditional recognition was granted to zoos having potential to improve. The zoos, which have no potential to come up to the prescribed standards, were not granted recognition.
2. 100% financial assistance was provided to nineteen zoos for improvement of housing, upkeep and veterinary care of animals. Out of the total grant of Rs. 426.89 lakhs released for development of zoos, Rs. 348.54 lakhs were released on 100% funding basis. The balance amount of Rs. 78.35 lakhs was released on 50:50 funding basis. The feeding cost for rescued animals (Rs. 21.69 lakhs) and creation of rescue centre (Rs. 625.00 lakhs) was also released on 100% funding basis.
3. A committee on Zoo Designing was constituted on 28th July, 1999 with the approval of the Minister of Environment & Forests & Chairman, Central Zoo Authority. The Committee has five members and the Member Secretary is the convener of the Committee. The functions of the Committee are (i) to scrutinize and approve designs of animal enclosures submitted by various zoos & (ii) to suggest standards/norms for designing of enclosures for various species.
4. Exchange programmes were encouraged between zoos to facilitate breeding of endangered species.
5. A research project was awarded to Wildlife Institute of India to evaluate exhibit design related behaviour pattern in primates and carnivores in selected Indian zoos.
6. A Strategic Future Workshop on vision for the ideal zoo of the future was conducted by the Central Zoo Authority at Hyderabad. Dr. Harrie Vredenburg and Dr. (Ms.) Francis Westley, eminent management consultants from Canada were invited as facilitators to the workshop.
7. The National Studbook for Asiatic lion and Bengal tiger were updated and published.
8. Hindi version of the booklet, "Zoos - Instruments of Conservation", which contains all the important regulations, rules and guidelines issued by Central Zoo Authority, was published.
9. A Workshop on National Zoo Policy was held at Kanpur for deciding the ways & means to implement the policy by various stakeholders.
10. During the year, Central Zoo Authority provided Rs. 625 lakhs for creation of rescue centres for housing of lions and tigers to be received from circuses, at five different zoos.
11. For upgrading the technical skills of zoo personnel, training courses were organised in collaboration with Wildlife Institute of India, Dehradun.



Strategic Future Workshop in session.

CHAPTER-II

IMPORTANT DECISIONS OF THE CENTRAL ZOO AUTHORITY

1. As envisaged in the National Zoo Policy, no sub-standard zoo should be allowed to be setup in the country.
2. With a view to provide scientific input into planned breeding programme of endangered species, it was decided that Central Zoo Authority shall support projects involving zoo and scientists/ scientific institutions on a tripartite basis.
3. It was decided that the veterinary graduates passing out from Universities should be compulsorily attached with a zoo for a minimum of one week as part of their internship, as proposed by Veterinary Council of India, New Delhi.
4. It was decided to prepare a concept paper on personnel policy for the zoos and seek the opinion of concerned Ministries to facilitate final decision in this regard.

CHAPTER-III

EVALUATION AND GRANT OF RECOGNITION TO ZOOS

During the year under report, third round of evaluation of 4 large zoos, second evaluation of 4 medium zoos and 7 small zoos were completed. The list of zoos evaluated is as follows:

Large

1. M. C. Zoological Park, Chhatbir, Chandigarh.
2. National Zoological Park, Delhi

3. Kanpur Zoological Park, Kanpur
4. Prince of Wales Zoological Gardens, Lucknow

Medium

1. Thiruvananthapuram Zoo, Thiruvananthapuram
2. Jodhpur Zoo, Jodhpur
3. Itanagar Zoo, Itanagar
4. Lion and Tiger Safari, Shimoga



Bear in a naturalistic enclosure in Indira Gandhi Zoological Park, Vishakhapatnam

Small

1. Rohtak Zoo, Rohtak
2. Sri Venkateswara Zoological Park, Tirupati
3. Mahavir Harina Vanasthali, Hyderabad, Andhra Pradesh
4. Sanjay Gandhi National Park, Borivali, Maharashtra
5. Lady Hyadari Park, Shillong, Meghalaya
6. Udaipur Zoo, Udaipur, Rajasthan
7. Bikaner Zoo, Bikaner, Rajasthan
5. Jhargram Deer Park, Jhargram, West Bengal
6. Jogmaya Mini Zoo, Howrah, West Bengal
7. Belilious Deer Park, Howrah, West Bengal
8. Life Science Corner, Science City, Calcutta, West Bengal
9. Mini Zoo, Roing, Arunachal Pradesh
10. Mini Zoo, Miao, Arunachal Pradesh
11. Dipak Mitra Snake House, Calcutta, West Bengal
12. Deer Park, Chittorgarh, Rajasthan
13. Deer Park, Tata International, Dewas, Madhya Pradesh
14. Deer Park, Aonla, IFFCo, Bareilly, Uttar Pradesh

Except for Rohtak Zoo, all the above-mentioned large, medium and small zoos were granted conditional recognition. Grant of recognition to Rohtak Zoo was withheld pending compliance of conditions stipulated earlier.

Mini Zoos

During the year under report, following 14 mini zoos were evaluated:

1. Mini Zoo, Pipli, Haryana
2. Deer Park, Chandimandir, Haryana
3. Goverdhan Trust, Udaipur, Rajasthan
4. Haridas Ji Ki Magri, Udaipur, Rajasthan

Only four zoos, namely, Jhargram Deer park, Jhargram, West Bengal; Life Science Corner, Science City, Calcutta; Deer Park, Tata International, Dewas, Madhya Pradesh and Deer Park, Aonla, IFFCo, Bareilly, Uttar Pradesh were granted conditional recognition.

The recognition of other ten mini zoos was withheld pending compliance of conditions of recognition stipulated earlier.

CHAPTER -IV

PLANNED BREEDING OF ENDANGERED SPECIES

The Central Zoo Authority continued to pursue its efforts in planned breeding of endangered animals in Indian zoos. However, resistance in movement of single animals by zoos and overpopulation of prolifically breeding species remained the major hindrance in its implementation.

In order to provide technical inputs in planned breeding of Asiatic lion, Bengal tiger, Golden langur, lion tailed macaque and one horned rhino, the Wildlife Institute of India was awarded a project to prepare Studbooks for these species. The outcome of the process would enable the species coordinators to shortlist the animals, which are in the breeding age, for strengthening planned breeding programme.

The Central Zoo Authority approved transfer of second batch of five (2:3) Swamp deers from Prince of Wales Zoological Garden, Lucknow to Jaldapara Wildlife Sanctuary, West Bengal.

Important births in Indian Zoos

Sl. No.	Name of the Zoo	Species	No. of births
1.	Veermata Jijabai Udyan, Mumbai	Four Horned antelope	5
2.	Sri Chamarajendra Zoological Park, Mysore	Ratel	1
		Gaur	1
		Nilgiri Langur	1
3.	Sakkarbag Zoo, Junagarh	Four Horned antelope	7
		Asiatic lion	4
4.	Assam State Zoo, Guwahati	Leopard cat	5
5.	Nehru Zoological Park, Hyderabad	Mouse deer	3
		Swamp deer	2
		Indian elephant	1
6.	National Zoological Park, Delhi	Brow antlered deer	8
		Swamp deer	2

The Authority also decided that Shri S.C. Dey and Dr. Ashok Singh, Members, Central Zoo Authority and Dr. Iqbal Malik, Member, Technical Committee, Central Zoo Authority should visit Jaldapara with a view to monitor the programme.

The Asiatic lions, which were sent to Yokohama Zoo, gave birth to young ones.

Exchange programme

The Technical Committee of the Central Zoo Authority met on 28th May, 1999, 8th June, 1999, 28th September, 1999 and 1st February, 2000. The Committee reviewed exchange proposals submitted by zoos. On the basis of the decisions taken by the Committee and under the powers delegated to the Member Secretary, proposals for exchange, loaning and gifting of zoo animals within the country and zoos abroad were approved. The list of approved proposals is placed at Annexure - I.

Sl. No.	Name of the Zoo	Species	No. of births
7.	Alipore Zoological Garden, Calcutta	Brow antlered deer Chinkara	3 1
8.	Kanpur Zoo, Kanpur	Four Horned antelope	1
9.	Arignar Anna Zoological Park, Chennai	Wild dog Brow Antlered deer Nilgiri langur Lion tailed macaque Python	8 2 1 1 8



Brow antelered deer in National Zoological Park, Delhi

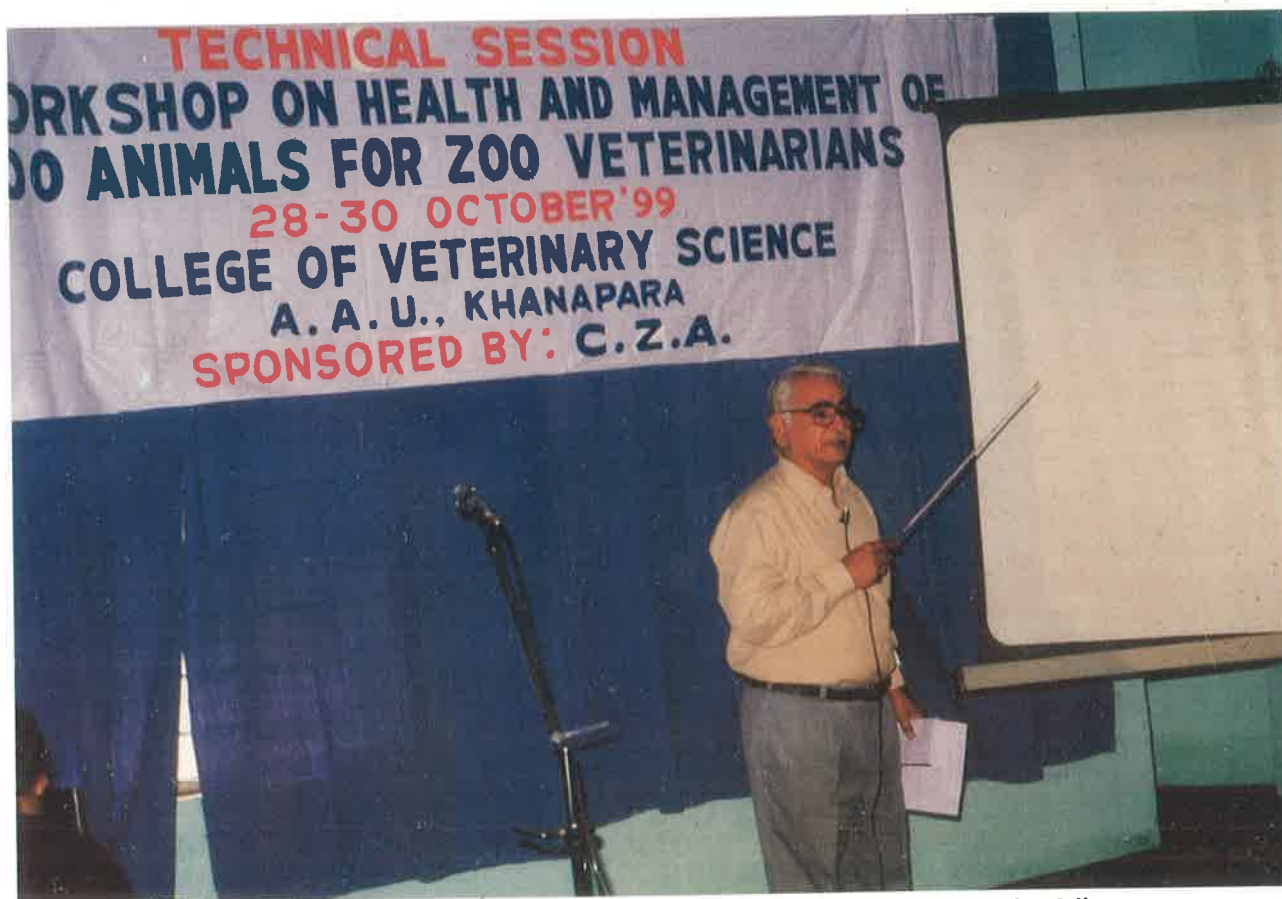
CHAPTER-V

HEALTH CARE OF ZOO ANIMALS

The main objective of a zoo is to complement and strengthen the National efforts in conservation of the rich biodiversity of the country. This objective can be achieved only when we have the requisite technical competence in ex-situ animal management. In the developed countries, zoos have expertise in the field of zoo animal health care and treatment. However in our country, the specialisation has not yet begun in the field of zoo medicine and most of our veterinary officers in the zoo are still relying on symptomatic

treatment based on individual experience. Even a database on diagnostic methods and health care is lacking.

In order to give a major thrust in this field, the Central Zoo Authority is providing 100% financial assistance for construction of veterinary hospitals, treatment rooms and post-mortem rooms. Funding is also being provided to the zoos to upgrade their existing veterinary facilities with latest diagnostic



Dr. B.M. Arora, in the Workshop on "Health Management of Zoo animals"

equipment. This year the Central Zoo Authority has provided financial assistance of Rs. 47.43 lakhs for upgradation of veterinary facilities and construction of modern hospitals in eight zoos.

The Central Zoo Authority is also engaged in upgrading the technical skills of the veterinarians in the zoo. A Workshop on 'Health & Management of Zoo Animals' for zoo veterinarians was organised at Guwahati from 28th to 30th October, 1999 in collaboration with the College of Veterinary Science, Assam Agricultural University, Guwahati. With a view to inculcate awareness among the fresh graduates about Health Management of Zoo Animals, the Veterinary Council of India (VCI), New Delhi directed the veterinary colleges and universities to make it compulsory for the graduates to undertake one week internship in a zoo.

The Central Zoo Authority continued to provide funding for procurement of latest books and periodicals on veterinary science to all the important zoos in the country. The Central Zoo Authority also brought out a manual on "Restraint & Translocation of Wild Mammals" written by Dr. B.M. Arora, Head,

Centre for Wildlife Conservation Management & Disease Surveillance, Indian Veterinary Research Institute (IVRI), Bareilly (UP). The Indian Zoo Directors' Association (IZDA) also continued to support veterinarians by bringing out a Compendium on "Health & Disease Management" with the financial assistance from the Central Zoo Authority. Funds were also provided to the following eight major zoos for procuring computers, so that a database on management of diseases in the zoos can be developed and maintained by them.

1. Indira Gandhi Zoological Park, Visakhapatnam.
2. Kamla Nehru Zoological Park, Ahmedabad.
3. Nandankanan Biological Park, Bhubaneswar.
4. Prince of Wales Zoological Garden, Lucknow.
5. Kanpur Zoological Park, Kanpur.
6. Alipore Zoological Park, Kolkata.
7. Assam State Zoo, Guwahati.
8. Sanjay Gandhi Biological Park, Patna.

CHAPTER - VI

RESEARCH & TRAINING

1. The Project on establishment of a Laboratory on Conservation of Endangered Species at Hyderabad was approved. The Department of Biotechnology, Central Zoo Authority and Andhra Pradesh Forest Department are the participating institutions for promotion of this Laboratory. The Laboratory will be set up under the Centre for Cellular & Molecular Biology, Hyderabad and will take up research projects related to DNA Fingerprinting of wild animals, assisted reproduction and establishment of a cell bank for endangered species.
2. The Centre for Cellular & Molecular Biology (CCMB), Hyderabad submitted the final report on the Project "Semen Analysis and Cryopreservation of Spermatozoa of Indian Wild Animals". The report has provided the zoos data, which could be used by the zoos for planned breeding of tigers and lions. The summary findings are placed at Annexure-II.
3. A project on evaluation of exhibit design related behaviour patterns in primates and carnivores in selected Indian Zoos and its implication in species compatible design was awarded to



Indian Zoo Director's Conference at Calcutta

Wildlife Institute of India (WII), Dehradun. The project will throw light on the present enclosure design and its compatibility in meeting the biological needs of the animals.

4. The WII, Dehradun submitted the final report on the project "Seroepidemiological study of infectious diseases in Asiatic lions". The summary of the Report is placed at Annexure-III.
5. A two-week capsule course for zoo supervisors was organised at Alipore Zoological Garden, Calcutta from 22nd February to 10th March, 2000. A module on studbook keeping was also introduced in this course and the training was held at Nandankanan Zoo, Bhubaneswar.
6. Training programme for Zoo keepers was organised by Kamla Nehru Zoological Garden, Ahmedabad (from 1st October, to 10th October,

1999), (Nehru Zoological Park, Hyderabad (from 10th November to 19th November, 1999). Arignar Anna Zoological Park, Vandalur (from 22nd November to 28th November, 1999), Nandankanan Biological Park, Bhubaneswar (from 28th January to 6th February, 2000), Kanpur Zoological Garden, Kanpur (from 24th February, 2000 to 4th March, 2000). In all, 140 animal keepers were trained.

7. Shri B. C. Prusty, Director, Nandankanan Biological Park, Bhubaneswar and Dr. R.K. Sahu, Zoo Superintendent, Kamla Nehru Zoo, Ahmedabad participated in a three weeks course on Conservation of Endangered Species at Durrell Wildlife Preservation Trust, UK during July-August, 1999.

CHAPTER - VII

RESCUE AND REHABILITATION

Rehabilitation of animals received from Mobile Zoos:

The Central Zoo Authority had evaluated 18 mobile zoos and found that these zoos did not meet the stipulated conditions under "Recognition of Zoo Rules, 1992" and refused recognition to them. However, these mobile zoos challenged the decision of the Central Zoo Authority and appealed before the Hon'ble High Court of Delhi. The High Court while dismissing their writ petition, directed the mobile zoos to surrender their animals to the Chief Wild

Life Warden of the respective States. The mobile zoos surrendered their animals at Lucknow Zoo, Kanpur Zoo, Patna Zoo and Jaipur Zoo. These zoos were provided financial assistance worth Rs. 21.69 lakhs during the year 1999-2000 for meeting the feeding cost and health care of the surrendered animals.

Rehabilitation of animals from Circuses:

The Government of India has put a ban on performance of lion, tiger, panther, bear and



Rescue centre for lions at Arignar Anna Zoological Park, Vendalure, Chennai

monkeys by circuses. Consequent to the ban, these animals would need to be rehabilitated at appropriate facilities. The Indian zoos do not have adequate facilities to rehabilitate all these animals. Therefore, the Central Government decided that rescue centers may be created by the Central Zoo Authority in the off display areas of the zoos. Seven zoos were identified for this purpose. These are:

1. Arignar Anna Zoological Park, Chennai, Tamil Nadu
2. Indira Gandhi Zoological Park, Visakhapatnam, Andhra Pradesh
3. Sri Venkateswara Zoological Garden, Tirupati, Andhra Pradesh
4. Bannerghatta National Park, Bangalore, Karnataka
5. Nahargarh Biological Park, Jaipur, Rajasthan

6. Kamla Nehru Zoological Park, Ahmedabad, Gujarat
7. Nandankanan Biological Park, Bhubaneswar, Orissa.

Out of these seven centres, work at five centres was taken up during the year. Financial assistance to the tune of Rs. 625 lakhs was released to five zoos, namely, Arignar Anna Zoological Park, Chennai in Tamil Nadu; Indira Gandhi Zoological Park, Visakhapatnam & Sri Venkateswara Zoological Garden, Tirupati in Andhra Pradesh; Bannerghatta National Park, Bangalore in Karnataka and Nahargarh Biological Park, Jaipur in Rajasthan for creating infrastructure facility for housing of lions and tigers. The rescue centre in these five location are likely to be completed by the end of year 2000-2001. Creation of rescue centre at two other places shall be taken up after due assessment of requirement.

CHAPTER-VIII

EDUCATION & AWARENESS

- A. Shri Brij Kishor Gupta, Scientist in the Central Zoo Authority attended a three day National Consultation on 'Environmental Education in the School System' held at Centre for Environment Education, Ahmedabad.
- B. An information and activity manual on educational opportunities entitled "Wild at the Zoo" was published by Centre for Environment Education, Ahmedabad in technical collaboration with Central Zoo Authority. The manual seeks to orient and equip the school teachers in discharging their role as zoo educator effectively.
- C. National Zoological Park, New Delhi conducted an orientation programme in zoo education for school teachers. The Member Secretary, Central Zoo Authority was invited to deliver a presentation on the role of zoos in conservation and education.
- D. Arignar Anna Zoological Park, Chennai, Sri Chamarajendra Zoological Park, Mysore, Alipore Zoo, Calcutta, National Zoological Park, Delhi, Gwalior Zoo Gwalior, Kamla Nehru Prani Sangrahalaya, Indore, Sanjay Gandhi Biological Park, Patna, Kamla Nehru Zoological, Garden Ahmedabad, Prince of Wales Zoological Gardens, Lucknow, Nehru Zoological Park, Hyderabad and Padmaja Naidu Himalayan Zoological Park, Darjeeling organized guided tours for school children to make their visits more rewarding and enriching.
- E. The Central Zoo Authority brought out a wall calendar for the year 2000 on the theme "Wildlife of Arid Landscape" as part of its programme on creating awareness about the desert fauna.
- F. The Central Zoo Authority and Indian Zoo Director's Association continued to bring out the quarterly news letter for sharing of technical information on important aspects of zoo management in the country. The IIIrd Volume of Indian Zoo Year Book was published during the year.



Drawing Competition of School Children in Arignar Anna Zoological Park, Chennai

CHAPTER-IX

INTERNATIONAL COOPERATION

Shri P. R. Sinha, Member Secretary, Central Zoo Authority attended the annual meeting of the Conservation Breeding Specialist Group

(CBSG) and the World Zoo Organization meeting at Pretoria, South Africa from 14th to 23rd October, 1999.



World Zoo Organisation meeting at Pretoria-South Africa

CHAPTER-X

ADMINISTRATIVE MATTERS

The position in respect of the sanctioned posts under the Central Zoo Authority and name of the incumbents is as follows:

Name of the Post	Scale of the Post	No. of the Post	Name of incumbent
Member Secretary	18400-22400	1	Shri P.R. Sinha
Finance Officer	8000-13500	1	Shri B.S. Rawat
Accountant	5500-9000	1	Shri G.S. Gosain (on contract basis)
Data Processing Assistant	5000-8000	1	Shri Vivek Goel
Personal Assistant	5000-8000	2	Mrs. Seema Burreja Mrs. Neeti Gulati
U.D.C. & Cashier	4000-6000	2	Shri R.S. Rawat One post-vacant
L.D.C.	3050-4590	1	Shri Sanjay Kumar (upto September, 99)
Driver	3050-4590	1	Shri Hari Singh
Peon	2550-3200	2	Shri Thakur Das Shri Pramod Kr. Jha

Shri Bipul Chakrabarty continued to work on contract basis to assist the Member Secretary in discharge of his statutory duties and preparation of database on zoos. Shri Brij Kishor Gupta continued to work on contract basis in discharge of duties related to scrutiny of designs of animal enclosures, layout plans of zoos, evaluation of mini zoos, works related establishment of rescue centres for circus animals and bringing out compilation of news clippings related to

events covering zoos. Shri W.C. Arora, a retired IES Officer, continued to work as Registrar on contract basis. The post of Accountant could not be filled up on deputation basis. Therefore, a retired person of Civil Accounts Service has been engaged on contract basis to attend the work as Accountant. One casual worker Shri Gopal Swamy was granted temporary status as per the general orders of the Government.

CHAPTER-XI

FINANCIAL MATTERS

During the year 1999-2000, the Central Zoo Authority had received Rs. 1210.00 lakhs as Grants-in Aid from the Ministry of Environment and Forests. The entire grant was utilised for furtherance of the objective assigned to the Central Zoo Authority. The major portion of the grants-in-aid was utilised for providing financial assistance to the zoos. Central Zoo Authority provides 100% financial assistance to zoos for improvement of housing, upkeep and health care facilities. A total sum of Rs. 1073.58 lakhs was released as grant to zoos during the year. This included Rs. 625.00 lakhs for creation of rescue centres for rehabilitation of circus animals in five different zoos. A list of zoos, which received financial assistance from the Central Zoo Authority during 1999-2000 is at Annexure IV.

Annual Accounts & Audit

The accounts of Central Zoo Authority are audited by the Comptroller & Auditor General of India under Section 19 (2) of C&AG's (Duties,

Powers and Conditions of Service) Act, 1971 read with Section 38E(5)&(6) of the Wild life (Protection) Act. The Principal Director of Audit, Scientific Department, New Delhi conducts the audit of the accounts of the Central Zoo Authority on behalf of the C&AG.

The annual accounts of the Central Zoo Authority for the year 1999-2000 were prepared and submitted to the Principal Director of Audit, Scientific Department on 9.5.2000. The audit of accounts was carried out by a team from the office of the Principal Director of Audit, Scientific Department from 5.7.2000 to 17.7.2000. The copies of the Audited Accounts for the year 1999-2000 containing Receipts & Payments Accounts, Income & Expenditure Accounts and the Balance Sheet with Schedules as on 31.3.2000 are placed at Annexure V to VIII. The Audit Certificate along with the Audit Reports appended therewith, are placed at Annexure IX.

A. Exchange proposals between Indian Zoos (as approved by the Technical Committee)

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Recipient Zoo/ Organisation
1.	Jawaharlal Nehru Biological Park, Bokaro	1. Stump tailed Macaque 1(1:0) 2. Leopard Cat 3(1:2) 3. Himalayan Black Bear 3(1:2) 4. Hyena 2(1:1) 5. Rhesus Macaque 4(2:2) 6. Leopard 2(1:1) 7. Brahmini Duck 3(1:2)	Black Buck (0.3)	Sanjay Gandhi Biological Park, Patna.
2.	Prince of Wales Zoological Park, Lucknow		* Swamp Deer 5(2:3)	Jaldapara Wildlife Sanctuary, West Bengal.
3.	Prince of Wales Zoological Park, Lucknow	Chinkara 2(0:2)	1. Barking Deer 4(2:2) 2. Himalayan Black Bear 2(1:1) 3. White Rosy Pelican 2(1:1) 4. Painted Stork 2(1:1)	Gandhi Zoological Park, Gwalior.
4.	Jawaharlal Nehru Zoological Park, Bokaro	Capped Langur 2(0:2)		Arignar Anna Zoological Park, Chennai.
5.	National Zoological Park, Delhi	Sangai 1(1:0)	Sangai 1(1:0)	Alipore Zoological Park, Calcutta

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Receipt Zoo/ Organisation
6.	Padmaja Naidu Himalayan Zoological Park, Darjeeling	1. Siberian Tiger 1(0:1) 2. Snow Leopard 2(1:1)		Pt. Govind Ballabh Pant High Altitude Zoo, Nainital
7.	Sanjay Gandhi Biological Park, Patna	Leopard Cat 4 (2:2)	Sangai 4(2:2)	National Zoological Park, Delhi
8.	Alipore Zoological Park, Calcutta	1. Jackal 2(1:1) 2. Silver Pheasant 4(2:2)	1. Indian Fox 1(1:0) 2. Bhutan Grey Peacock Pheasant 4(2:2)	Kanpur Zoological Park, Kanpur
9.	Kanpur Zoological Park, Kanpur	Wild Dog 4(2:2)	Capuchin Monkey 4(2:2)	Arignar Anna Zoological Park.
10.	National Zoological Park, Delhi	1. Jungle Fowl 4(2:2) 2. Goral 1(1:0)	Goral 1(1:0)	Himalayan Nature Park, Kufri
11.	Arignar Anna Zoological Park, Chennai	1. Hippo 1(0:1) 2. African Grey Parrot 2(1:1) 3. Military Macaw 2(1:1)	Asiatic Lion 2(0:2)	Veer mata Jijabai Udyan Zoo, Mumbai

B. Exchange/Gift proposals between Indian Zoos and Foreign Zoos (as approved by Technical Committee and the Chairman, Central Zoo Authority)

1.	Prince of Wales Zoological Park, Lucknow	Chimpanzee 1(0:1)		TISCH Family Zoological Park, Jerusalem, Israel
2.	Madras Crocodile Bank, Mamallapuram, Tamilnadu		1. Mugger 2(0:0:2) 2. Saltwater Crocodile 5(0:0:5)	Danish crocodile Exhibition, Denmark

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Receipient Zoo/ Organisation
			3. Gharial 2(0:0:2)	
			4. Morolets Crocodile 5(0:0:5)	
			5. Siamese Crocodile 4(0:0:4)	
3.	Madras Crocodile Bank, Mamallapuram, Tamilnadu		1. Gharial 4(0:0:4)	London Zoo, U.K.
			2. Salt water Crocodile 6(2:4)	
4.	Sri Chamarajendra Zoological Park, Mysore	Bonnet Kangaroo 5(2:3)		Dieren Park, Anna Paulowna, Netherlands
5.	Madras Crocodile Bank, Mamallapuram, Tamilnadu	African Slender Snouted Crocodile 8(0:0:8)		Noorder Dieren Park, Netherlands
6.	Padmaja Naidu Himalayan Zoological Park, Darjeeling	Takin 4(2:2)		Bhutan Govt.
7.	Sri Chamarajendra Zoological Park, Mysore	1. Kalimantan Orangutan 2(1:1)	1. Nilgai 4(2:2) 2. Swamp deer 4(2:2)	Ragunan Zoo, Jakarta
		2. Pig tailed Macaque 5(2:3)	3. Black buck 7(3:4)	
		3. Malayan Sun Bear 2(1:1)	4. Himalayan Black Bear 2(1:1)	
		4. Siamang Gibbon 2(1:1)	5. Sloth Bear 2(1:1)	
		5. Greater Yellow Cookatoo 4(2:2)		

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Receipt Zoo/ Organisation
8.	Nanadankanan Biological Park, Bhubaneswar		Sloth Bear 2(2:0)	Leipzig Zoo
9.	Nandankanan Biological Park, Bhubaneswar		Elephant 2(1:1)	Almaty Zoo, Kazakshtan

C. Exchange proposals approved by the Member Secretary

1.	Tata Steel Zoological Park, Jamshedpur	Mugger 6(3:3)		Madras Crocodile Bank, Mamallapuram, Tamil Nadu
2.	Rajkot Zoological Park, Rajkot	Mugger 5(0:0:5)		Madras Crocodile Bank, Mamallapuram, Tamil Nadu
3.	Bikaner Zoo, Bikaner	1. Hyena 1(0:1) 2. Sloth Bear 1(0:1)		Jaipur Zoo
4.	Jodhpur Zoo	Rhesus Macaque 2(1:1)		Jaipur Zoo
5.	National Zoological Park, Delhi	Leopard 1		Bheraghat, Jabalpur
6.	Alipore Zoological Park, Calcutta	Gharial 3(1:2)		Madras Crocodile Bank, Mamallapuram, Tamil Nadu
7.	Jaipur Zoo		Mugger 1(0:1)	Mount Abu Wild life Sanctuary, Rajasthan
8.	Jaipur Zoo		1. Sambar 6(2:4) 2. Chital 15 (5:10)	Deer Park, Chittorgarh
9.	Kota Zoo		1. Mugger 1(0:0:1) 2. Rhesus Macaque 1	1. National Chambal Sanctuary 2. Reserve Forest, Kota

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Receipt Zoo/ Organisation
10.	National Zoological Park, Delhi	Mugger 4(2:2)		Deoria, Madhya Pradesh
11.	M.C. Zoological Park, Chhatbir, Chandigarh	1. Budgerigar 10(5:5) 2. Grey Cockateel 10(5:5) 3. Java Sparrow 10(5:5) 4. Spoon Bill 2(1:1) 5. Whistling teal 4(2:2) 6. Chinkara 1(1:0)	1. Barheaded Goose 4(2:2) 2. Black Buck 1(0:1) 3. Hogdeer 2(2:0)	Alipore Zoological Park, Calcutta
12.	Himalayan Zoological Park, Gangtok	Himalayan Black Bear 3(2:1)		Mini Zoo, MIAO
13.	Padmaja Naidu Himalayan Zoological Park, Darjeeling	Barking Deer 4(2:2)		Alipore Zoological Park, Alipore
14.	Prince of Wales Zoological Park, Lucknow	Chimpanzee 1(0:1)		Nehru Zoological Park, Hyderabad
15.	Udaipur Zoo	1. Tiger 2(0:2) 2. Lion (Hybrid) 2(1:1)		Kota Zoo
16.	Jodhpur Zoo	Tiger 1(1:0)		Kota Zoo
17.	Mini Zoo, Himayatsagar, Andhra Pradesh	African Grey Parrot 2(1:1)		Veermata Jijabai Udyan Zoo, Mumbai
18.	Bannerghatta Biological Park, Bangalore	1. Zebra 2(1:1) 2. White Tiger 2(1:1)		Nandankanan Biological Park, Bhubaneswar

Summary findings of the Project "*Semen Analysis and Cryopreservation of Spermatozoa of Indian Wild Animals*" conducted by Centre for Cellular & Molecular Biology (CCMB), Hyderabad

The Project on Cryopreservation of Spermatozoa in wild animals is the first of its kind in India and it has yielded promising results that can be used in efficient management of captive animals, particularly the felids. The significant achievements of the Project are as follows:

- Protocols have been established for anaesthetizing and electro-ejaculating a wide range of animals such as lions, tigers, leopards, hyenas, jackals, bears, deers and monkeys.
- Repeated anaesthesia or electro-ejaculation did not cause harm to the animals.
- TALP and HF-10 media were found to be the most suitable for washing and processing of sperm for motility analysis and fertilizing ability studies.
- TEST-yolk buffer was most suitable for crypreserving the sperm at the site of collection.
- Zona free hamster oocytes could be used to test the penetration ability of the sperms (both neat and freeze-thawed) of the wild animals.
- CASA could be utilised for fast and accurate diagnosis of the quality of the spermatozoa of the wild animals.
- Findings based on spermatology and hormonal analysis, indicate that inbreeding depression *vis-a-vis* usefulness of the animals for captive breeding is not a matter of serious concern among the captive tigers, lions and leopards. These findings are in agreement with the study carried out by Dr. Singh and his colleagues on the genetic heterogeneity of the mega cats.

***Summary Report of
"Seroepidemiological Study of infectious diseases in Asiatic Lions."
Submitted by Wildlife Institute of India***

In an effort to understand the seroprevalence of viral infections and their impact on the Asiatic lions, a seroepizootiological study of canine distemper virus (CDV), feline parvo virus (FPV), feline immunodeficiency virus (FIV) and feline leukaemia virus (FeLV) was done in Asiatic lions, hybrid lions and sympatric leopards and domestic carnivores in zoological parks in Ahmedabad, Baroda, Junagadh, Rajkot and the Gir National Park and Sanctuary and Devaliya, Safari Park. Fifty lions, including 13 hybrid lions, 24 leopards, 30 domestic cats and 196 domestic dogs were tested by agar gel immunodiffusion tests and dot-immunobinding assays for the serological evidence of above viruses. Antibodies to CDV were detected in 94.59% (35/37) of Asiatic lions. 76.92% (10/13) of the hybrid lions. 91.66% (22/24) of the leopards. 70% (21/30) of the domestic cats and 66.83% (131/196) of the domestic dogs. High seropositivity to CDV without overt symptoms of clinical disease suggested the possibility of a strain of low pathogenicity circulating or infecting these felids. It also indicated the probability of felid to felid transmission. 100% seroprevalence to FPV antibodies was observed in both the domestic and exotic felids. Absence of clinical feline panleukopenia-like symptoms, suggested that FPV appeared to manifest itself as an inapparent infection in these domestic and non-domestic felids. 80% of lions. 62.5% of leopards and 80% of domestic cats sampled had high FPV antibody titres more than 1:160, suggesting repeated infection with an endemic parvo-like virus. There were no detectable levels of antibodies to FIV or FeLV antigens in the lions, Leopards and domestic cats. The study found in captive non-domestic felids, a high prevalence to CDV and FPV, two viruses, known to have caused large-scale mortalities in captive and free-living non-domestic felids worldwide. It is suggested that movement, translocation or re-introduction of these seropositive felids may be associated with disease risks and hence movement and translocation of these felids must be done after subjecting them to standard quarantine and disease screening protocols. Vaccination may be considered using killed or other suitable viral vaccines, which have been proved to be safe, effective and efficacious in endangered felids.

DETAILS OF FINANCIAL ASSISTANCE GRANTED BY THE CZA TO ZOOS DURING 1999-2000

S. No.	Name of the Zoo	Animal Security	Animal Housing	Veterinary Care	Water power supply	Hygienic Storage & Distribution of food	Maintenance of Hygienic environment	Zoo Education and awareness	Feeding of rescued animals	Construction of Rescue centre	Total (Rs.in lakhs)
1.	Chidiatapu Biological Park, A&N	—	28.74	—	—	—	—	—	—	—	28.74
2.	Gandhi Zoological Park, Gwalior	—	21.00	—	—	—	—	—	—	—	21.00
3.	Arignar Anna Zoological Park, Chennai	5.00	10.00	1.50	2.50	2.00	—	—	—	128.00	149.00
4.	Sanjay Gandhi Biological Park, Patna	—	15.45	—	—	—	—	—	—	—	15.45
5.	Nature Park, Surat, Gujrat	—	29.77	15.28	—	—	—	—	—	—	45.05
6.	Prince of Wales Zoological Gardens, Lucknow, U.P.	—	24.54	1.75	—	—	0.88	—	9.94	—	37.11
			16.50 - New Cza								
			3.04 - Special Ben								
7.	Padmaja Naidu Himalayan Zoological Park, Darjeeling	—	28.47	5.90	—	—	—	—	—	—	34.37
8.	Rajkot Municipal Zoo, Rajkot, Gujarat	—	—	—	14.27	—	—	—	—	—	14.27

S. No.	Name of the Zoo	Animal Security	Animal Housing	Veterinary Care	Water power supply	Hygienic Storage & Distribution of food	Maintenance of Hygienic Environment	Zoo Education and awareness	Feeding of rescued animals	Construction of Rescue centre	Total (Rs.in lakhs)
9	Zoological Park, Itanagar, Arunachal Pradesh	1.96	7.72	—	—	—	—	—	—	—	9.68
10	Indira Gandhi Zoological Park, Visakhapatnam	1.50	8.50	0.75	—	—	—	—	—	130.00	140.75
11	National Park, Bannerghatta, Karnataka	5.00	0.00	0.50	2.50	—	0.50	—	—	200.00	208.50
12	Kanpur Zoological Park, Kanpur, U.P.	—	—	—	—	—	10.00	—	9.75	—	19.75
13	Nandankanan Biological Park Bhubaneswar	8.00	30.00	15.00	11.00	—	1.50	—	—	—	65.50
14	Children's Corner, Guindy, Tamilnadu	—	—	—	2.50	—	2.00	0.50	—	—	5.00
15	Jaipur/Nahargarh Zoo Jaipur, Rajasthan	—	—	—	—	—	—	0.40	2.00	100.00	102.40
16	Bhagwan Birsa Biological Park, Ranchi	—	10.18	—	—	—	—	—	—	—	10.18
17	Kamla Nehru Zoological Park, Ahmedabad	—	2.75	—	—	—	—	—	—	—	2.75

S. No.	Name of the Zoo	Animal Security	Animal Housing	Veterinary Care	Water power supply	Hygienic Storage & Distribution of food	Maintenance of Hygienic Environment	Zoo Education and awareness	Feeding of rescued animals	Construction of Rescue centre	Total (Rs.in lakhs)
18.	Sri Venkateswara Zoological Park, Tirupati	—	35.00	6.75	—	—	5.00	1.00	—	67.00	114.75
19.	VJB Udyan, Mumbai	—	12.61	—	—	—	—	—	—	—	12.61
20.	Himalayan Zoological Park, Bulbuley, Gangtok	—	19.38	—	—	—	—	—	—	—	19.38
21.	Sepahijhala Zoo Tripura, Agartala	—	17.00	—	0.34	—	—	—	—	—	17.34
TOTAL		21.46	301.11	47.43	33.11	7.00	14.88	1.90	21.69	625.00	1073.58

CENTRAL ZOO AUTHORITY
(Ministry of Environment and Forests)
1999-2000


Receipts and Payments Account for the Year ending 31.3.2000

Receipts	Rs.	Payments	Rs.
To Opening Balance	19,96,467.00	By Grant to Zoos	10,73,58,000.00
To Grant-In-Aid from Central Government	12,10,00,000.00	By Refund of Unspent Grants-in-Aid to the Ministry	5,50,000.00
To Recoveries from Pay Bills adjustable by other Depts./Bodies.	1,05,540.00	By Salaries	16,54,999.00
To Recoveries of Festival Advance	5,400.00	By Wages	1,56,091.00
To Fees received from Zoos with applications of Recognition/Renewal	15,700.00	By Leave Salaries & Pension Contribution	36,460.00
To Refund of Security Deposits	0.00	By Honorarium	33,450.00
To Staff Car Recoveries	3,500.00	By Medical Expenses	44,480.00
To Other Recoveries/Receipt	92,714.00	By Bonus	16,329.00
To Interest on Fixed Deposit	0.00	By Leave Travel Concession	36,195.00
To Sundry Deposits	10,000.00	By Overtime Allowances	35,653.00
To Recovery of TDS Surcharge	1,58,823.00	By Travelling Allowances (Operational)	4,34,378.00 ✓
		By Travelling Allowances (Training/ Workshops and Conferences)	7,04,858.00
		By Travelling Allowances (Evaluation of Zoos)	4,13,399.00
		By Repairs and Maintenance	87,256.00
		By Equipment and Machinery	4,47,171.00
		By Petrol, CNG, Oil & Lubricant	49,928.00
		By Stationary	1,11,348.00
		By Printing, Binding & Publication	92,404.00
		By Books for CZA Library	41,343.00
		By Books sent to Zoos	1,228.00
		By Periodicals	9,198.00
		By Advertisement and Publicity	1,54,815.00
		By Conveyance and Cartage	47,189.00
		By Telephone Deposits	3,000.00
		By Telephone Charges	2,27,805.00
		By Postage Charges	77,591.00
		By Bank Charges	1,074.00

Receipts	Rs.	Payments	Rs.
		By Refreshment	15,415.00
		By Other Misc. Expenses	19,181.00
		By Audit Fee	24,250.00
		By Legal Expenses	20,985.00
		By Consultancy Charges for Zoo	
		Designing	3,38,000.00
		By Monitoring and Evaluation of Zoos	9,000.00
		By Research Project	46,52,500.00
		By Training, Workshop and Conferences	27,18,292.00
		By Education and Awareness	3,21,300.00
		By Security Deposit	0.00
		By Festival Advance	6,000.00
		By Remittance to other Departments of	
		Deductions made from Staff on Foreign	
		Service	1,05,540.00
		By Sundry Deposits Released	0.00
		By Deposit of TDS and Surcharge in	
		Government Account	1,60,671.00
		By Furniture and Fixtures	40,300.00
		By Payments to CPWD for Works	10,00,000.00
		By Vehicles	0.00
		By Cash at Bank	11,26,016.00
		By Cash in Hand	52.00
		By Imprest Account	5,000.00
Total	12,33,88,144.00	Total	12,33,88,144.00

Details of Opening Balanc

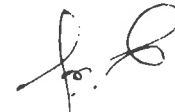
(i) Cash in Hand	7,042.00
(ii) Cash in Bank	19,84,425.00
(iii) Imprest	5,000.00
	<u>19,96,467.00</u>


MEMBER SECRETARY
CENRAL ZO AUTHORITY
NEW DELHI

Central Zoo Authority
(Ministry of Environment and Forests)
Income and Expenditure Accounts for the Year ending 31.03.2000


Expenditure	Rs.	Income	Rs.
To Grants to Zoos	10,73,58,000.00	By Grant-In-Aid from Central Government	12,10,00,000.00
To Salaries	16,54,999.00	By Fees Received from Zoos with Application of Recognition/ Renewal	15,700.00
To Wages	1,56,091.00	By Staff Car recoveries	3,500.00
To Leave Salaries and Pension Contribution	36,460.00	By Other Recoveries/Receipts	92,714.00
To Honorarium	33,450.00	By Interest on Fixed Deposits	0.00
To Medical Expenses	44,480.00		
To Bonus	16,329.00		
To Leave Travel Concession	36,195.00		
To Overtime Allowances	35,653.00		
To Travelling Allowances (Operational)	4,34,378.00		
To Travelling Allowances (Training/ Workshops and Conferences)	7,04,858.00		
To Travelling Allowances (Evaluation of Zoos)	4,13,399.00		
To Repairs and Maintenance	87,256.00		
To Petrol, CNG, Oil & Lubricant	49,928.00		
To Stationary	1,11,348.00		
To Printing, Binding & Publication	92,404.00		
To Periodicals	9,198.00		
To Advertisement and Publicity	1,54,815.00		
To Conveyance and Cartage	47,189.00		
To Telephone Charges	2,27,805.00		
To Postage Charges	77,591.00		
To Bank Charges	1,074.00		
To Refreshment	15,415.00		

Expenditure	Rs.	Income	Rs.
To Other Misc. Expenses	19,181.00		
To Audit Fee	24,250.00		
To Legal Expenses	20,985.00		
To Consultancy Charges for Zoo Designing	3,38,000.00		
To Monitoring and Evaluation of Zoos	9,000.00		
To Research Projects	46,52,500.00		
To Training, Workshop and Conferences	27,18,292.00		
To Education and Awareness	3,21,300.00		
To Equipment and Machinery Declared Unserviceable during the Year	3,84,793.00		
To Furniture and Fixtures Declared Unserviceable during the Year	1,016.00		
To Books Transferred to Various Zoos from CZA	1,228.00		
To Unspent Grants in Aid Refunded to the Ministry	5,50,000.00		
To Unspent Grants in Aid Refundable to the Ministry	11,21,068.00		
By Excess of Income Over Expenditure	0.00	By Excess of Expenditure over Income	8,48,014.00
TOTAL	12,19,59,928.00	TOTAL	12,19,59,928.00


MEMBER SECRETARY
CENTRAL ZOO AUTHORITY
NEW DELHI

CENTRAL ZOO AUTHORITY
(Ministry & Environment & Forests)
Balance Sheet as on 31st March, 2000

LIABILITIES	AMOUNT	SCHE- DULE	ASSETS	AMOUNT	SCHE- DULE
1. Central Zoo Authority Fund	39,54,801.00	I	1. Fixed Assets		
2. Sundry Creditors	0.00		(i) Furniture and Fixture	8,22,058.00	V
3. Gifts and Donations	0.00		(ii) Vehicles	2,33,256.00	VI
4. Current Liabilities and Provision	0.00		(iii) Equipment & Machinery	15,55,128.00	VII
5. Income Tax Payable	0.00	II	(iv) Books	3,32,759.00	VIII
6. Sundry Deposits returnable	10,000.00	III	2. Advances (Festival Advance)	3,600.00	IX
7. Unspent grants-in-aid returnable to the Ministry	11,21,068.00	IV	3. Security Deposits	—	
			(i) Petrol Account	5,000.00	X
			(ii) Telephone Account	3,000.00	XI
			4. Gifts and Donations	0.00	
			5. Investment (CZA Fund)	0.00	
			6. Sundry Debtors	0.00	
			7. Payment Made to CPWD for 'Works'	10,00,000.00	XII
			8. Cash and Bank Balance	—	XIII
			Cash at Bank	11,26,016.00	
			Cash in Hand	52.00	
			Imprest	5,000.00	
TOTAL	50,85,869.00		TOTAL	50,85,869.00	


MEMBER SECRETARY
CENTRAL ZOO AUTHORITY
NEW DELHI

CENTRAL ZOO AUTHORITY
(Ministry & Environment & Forests)
Schedule I to IX of Balance Sheet for 1999-2000

SCHEDULE I**Central Zoo Authority Fund**

Rs.

1. Opening Balance for 1999-2000	=	48,02,815.00
2. Less-Excess of Expenditure over Income	=	8,48,014.00
		Total 39,54,801.00

SCHEDULE II**TDS with Surcharge Payable**

1. Opening Balance for 1999-2000	=	1,848.00
2. Tax Deducted during the year	=	1,58,823.00
3. Total-deposited in Govt. Accounts During the year	=	1,60,671.00
		Balance 0.00

SCHEDULE III**Sundry Deposits Refundable**

1. Opening Balance for 1999-2000	=	0.00
2. Deposits received during the year	=	10,000.00
3. Deposits released during the year	=	0.00
		Balance 10,000.00

SCHEDULE IV**Unspent grant-in-aid returnable to Ministry**

1. Total unutilised grant	=	16,71,068.00
2. Returned to Ministry during the year	=	5,50,000.00
		Balance returnable to the Ministry 11,21,068.00

SCHEDULE V

Furniture and Fixtures

1. Opening Balance for 1999-2000	=	7,82,774.00
2. Addition during the year	=	40,300.00
3. Less-Unserviceable Furniture	=	1,016.00
Total		<u>8,22,058.00</u>

SCHEDULE VI

Vehicles

1. Opening Balance for 1999-2000	=	2,33,256.00
2. Addition during the year	=	0.00
Total		<u>2,33,256.00</u>

SCGEDULE VII

Equipment and Machinery

1. Opening Balance for 1999-2000	=	14,92,750.00
2. Add-Addition during the year	=	4,47,171.00
3. Less-Unserviceable equipment and machinery disposed off during the year	=	3,84,793.00
Total		<u>15,55,128.00</u>

SCHEDULE VIII

Books

1. Opening Balance for 1999-2000	=	2,91,416.00
2. Add-Addition during the year	=	42,571.00
3. Less-Transferred to Zoos	=	1,228.00
Total		<u>3,32,759.00</u>

SCHEDULE IX

Advances (Festival Advance)

1. Opening Balance for 1999-2000	=	3,000.00
2. Festival Advance sanctioned during the year	=	6,000.00
3. Festival Advance recovered during the year	=	5,400.00
		<u>Balance</u> 3,600.00

SCHEDULE X

Security Deposits-Petrol A/c

1. Opening Balance for 1999-2000	=	5,000.00
2. Addition during the year	=	0.00
		<u>Total</u> 5,000.00

SCHEDULE XI

Security Deposits-Telephone A/c

1. Opening Balance for 1999-2000	=	0.00
2. Addition during the year	=	3,000.00
		<u>Total</u> 3,000.00

SCHEDULE XII


Payments made to CPWD for works

1. Opening Balance for 1999-2000	=	0.00
2. Add-Addition during the year	=	10,00,000.00
3. Less-Works carried out during the year	=	0.00
		<u>Balance</u> 10,00,000.00

SCHEDULE XIII

Cash and Bank Balance

1. Amount returnable to Ministry	=	11,21,068.00
2. Security Deposits refundable	=	10,000.00
		<u>Cash Balance</u> 11,31,068.00



Member Secretary
Central Zoo Authority
New Delhi

ANNEXURE-IX

AUDIT CERTIFICATE

I have examined the Receipts & Payments Accounts, Income & Expenditure Accounts for the year ended 31st March, 2000 and the Balance Sheet as on 31st March, 2000 of the Central Zoo Authority, New Delhi. I have obtained all 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 explanation given to me and so shown by the books of the organisation.

Place : New Delhi
Dated : 1st February, 2001


Pr. Director of Audit
Scientific Departments

AUDIT REPORT ON THE ACCOUNTS OF CENTRAL ZOO AUTHORITY, NEW DELHI FOR THE YEAR 1999-2000

INTRODUCTION

The Central Zoo Authority, New Delhi was established in February, 1992 under Section 38A of Wild Life (Protection) Act, 1972 . The Authority started functioning from 4th February, 1992. It is financed mainly by grants and loans from the Central Govt. During the year 1999-2000, the Authority received grants of Rs. 1210.00 lakhs.

The accounts of the Authority are audited by the Comptroller and Auditor General of India under Section 19(2) of the Comptroller & Auditor General of India's (Duties, Powers and Conditions of Service) Act 1971 read with Section 38(G) of the Wild Life (Protection) Act, 1972 as amended.

COMMENTS ON ACCOUNTS:

2. Balance Sheet

Non-quantification of depreciation

The assets account of CZA depicted book value of acquisition and did not take into account depreciation with corresponding reduction of capital account. Though a note to this effect has been made in the Significant Accounting Policies, the amount of depreciation has not been quantified by CZA, which needs to be done. The CZA stated (July 2000) that the method of depreciation was yet to be worked out in consultation with the Ministry.

3. Non-capitalisation of Assets

As per condition (iv) of sanction letter issued by Ministry of Environment & Forests (Animal Welfare Division), the Central Zoo Authority was required to furnish annually an extract of various assets created out of the grant. It was observed that no such extract/statement of assets as mentioned above in respect of grant released to various zoos amounting to Rs. 1073.58 lakhs by Central Zoo Authority was appended with the Annual Accounts of Central Zoo Authority, New Delhi. In the absence of the Statement of Assets, appended with Accounts

the whole amount of Grants of Zoos amounting to Rs. 1073.58 lakh was treated as Revenue Expenditure as shown in the Receipts & Payments Account. It has resulted in understatement of assets in the Annual Accounts. The Authority stated that financial assistance had been provided to Zoo for housing, upkeep and healthcare of Zoo animals as per EFC and all the expenditure of Authority had to be treated as Revenue expenditure because grant was provided to CZA under Revenue (voted) Plan fund of the Ministry. It is further stated that assets created by grantee, out of the funds released by CZA were the property of concerned Zoo and CZA received the utilization certificate as per the provisions of GFR. The reply was not acceptable in audit as the condition (v) of sanction letter stated that the guarantee institutions was only trustee of assets and they did not hold the ownership of assets created out of the grant. Therefore the actual ownership of assets lies with CZA.

4. General

I Non-Receipt of Utilisation Certificates Rs. 329.54 lakhs

Central Zoo Authority releases grant-in-aid to various zoos. It was observed that:

- (i) Records of grant-in-aid had not been maintained properly, the grant released and adjustment made there against was not being attested by any responsible officer, in the absence of which necessary check could not be applied in audit.
- (ii) Utilisation Certificates for an amount of Rs. 329.54 lakhs were still pending to be received from Zoos since 1994-95 as per following summary:

(Rs. in lakhs)		
Year	No. Zoos	Amount
1994-95	1	7.00
1995-96	2	9.21
1996-97	2	53.67
1997-98	5	60.25
1998-99	12	199.41
Total	22	329.54

II Revision of Accounts

Understatement of expenditure

An amount of Rs. 16,71,068.00 was shown as deducted in schedule I of Balance sheet as

"Unspent grants returnable to the Ministry" from Central Zoo Authority Fund. Out of Rs. 16,71,068.00 an amount of Rs. 5,50,000.00 was refunded to Ministry during the year which was shown in payment side of Receipts & Payments Accounts. The remaining amount of Rs. 11,21,068.00 which was returnable at the end of the financial year, was shown in Liabilities side of Balance Sheet. As per accounting principle, the deduction of Rs. 16,71,068.00 from Central Zoo Authority Fund is wrong procedure. Instead, both the figures i.e. "Refund of unspent grant to Ministry Rs. 5,50,000.00" and "Unspent grant returnable to Ministry Rs. 11,21,068.00" should be shown in the Expenditure side of Income & Expenditure Account. It has resulted into understatement of expenditure to the extent of Rs. 16,71,068/- in the Annual Accounts of CZA. However, the correction was made at the instance of audit.

Place : New Delhi
Date : 1st February, 2001



**Principal director of Audit
Scientific Departments
New Delhi**

