

417 100 1000

ANNUAL REPORT 1997-98



केन्द्रीय चिड़ियाघर प्राधिकरण
Central Zoo Authority

**Seventh Annual Report
(1997-98)**

**Central Zoo Authority
(Ministry of Environment & Forest)**

Headquarters
Barrack No. 4 Bikaner House
Sahjahan Road,
New Delhi-110011

CHAPTER - I

THE CENTRAL ZOO AUTHORITY

The Central Zoo Authority is an autonomous authority created by the Central Government to oversee and monitor the management of zoos in the country with a view that the animals held in the stock of various zoos get living conditions that are congenial to their mental and physical health and allow them to propagate successfully. The Authority is headed by the Minister, Environment & Forests. Secretary (E & F), Inspector General of Forests & Addl. Inspector General of Forests (WL) are the official members of the Authority. The non-official members of the Authority are:-

1. Shri Samar Singh, Secretary General, World Wide Fund for Nature India (WWF), Delhi.
2. Shri Asad R. Rahmani, Director, Bombay Natural History Society (BNHS), Mumbai.
3. Dr. Nandita C. Krishna, Hon. Director, C.P.R. Environmental Education Centre, Chennai.
4. Shri Divyabhanu Singh Chawda, Vice-President, Taj Group of Hotels, New Delhi.
5. Shri S.C. Dey, Secretary General, Global Tiger Forum, New Delhi.
6. Shri Khushwant Singh, Sujan Singh Park, Delhi.
7. Dr. Ashok Singh, Civil Lines, Allahabad.

For carrying out the instruction of the Authority and to monitor the action taken by the Officers in the Central Zoo Authority, two Committees, namely, Administrative Committee and Technical Committee have been constituted. The orders constituting these Committees are at Annexure-I & II.

Functions of the Authority

The Wild Life (Protection) Act provides that, no zoo can be operated without getting recognition from the Central Zoo Authority. The Authority can grant recognition only to the zoos that serve the cause of

conservation of wildlife. To achieve this objective, minimum standards and norms for housing, upkeep and health care of zoo animals have been prescribed (Recognition of Zoo Rules). Each zoo is evaluated with reference to the prescribed standards and norms and recognition is granted to it, only if it has potential to come up to the prescribed standards within reasonable time frame. The zoos which are unlikely to come up to the standards are refused recognition and asked to stop operation.

Financial assistance is provided to the zoos for upgrading the management of zoo animals in accordance with the directions of the Authority. During VIII Plan period the Central Zoo Authority has provided financial assistance to zoos to the tune of Rs. 9.47 crores.

Training programmes and workshops are organised to upgrade the technical skills of zoo personnels. Over the last five years, 116 officers and equal number of zoo keepers have been trained on modern aspect of zoo management.

Temporary breeding loans and gifts are also organised for making the animal collection in zoos genetically viable. A central data base has also been created to facilitate this process.

Management of animals in zoos being productivity linked activity needs significant technical and scientific skills, particularly on aspects like nutrition, breeding biology and population dynamics & Genetics. Latest know-how on these aspects is being obtained from eminent institutions within India and abroad. The quarterly news journal and the year-book, published by the Indian Zoo Directors Association (IZDA), are serving this purpose to a considerable extent. The publications by Zoo Outreach Organisation, namely, Zoo Zen & Zoos Print are also complementing these efforts.

Overview of the activity during the current year:-

1. During the current year 64 zoos were evaluated, of these 38 zoos have been granted recognition and 26 zoos have been refused recognition.
2. Financial assistance to the tune of Rs. 321 lakhs has been provided to various zoos.
3. Training programmes for zoo supervisors and zoo keepers were organised and 16 supervisors and 68 zoo keepers have been imparted training.
4. Exchange programmes of animals between zoos were coordinated, keeping in view the objective of enhancing their conservation role.
5. Scientific studies were supported regarding use of biotechnology for improved husbandry and propagation of endangered species of wild animals.



Central Zoo Authority in its meeting.

CHAPTER - II

IMPORTANT DECISION OF THE CENTRAL ZOO AUTHORITY

Important decisions of the Authority during the year 1997-98:-

1. Housing facilities for animals from the zoos refused recognition, should be created in-off-the display areas of zoos with adequate land areas, in different geo-graphical zones. The cost of feeding of these animals should also be reimbursed by the Central Zoo Authority.
2. 50:50 sharing of the cost for housing, upkeep and health care facilities has proved to be ineffective in improving the quality of life for animals in zoos because of the inability of the State Government to provide their share. Therefore, the Authority should provide 100% funding to zoos for these works.
3. With a view to have naturalistic enclosures which simulate the natural habitat of animals to the extent

possible, the Authority should provide the services of zoo design expert, on request from zoos. These inputs would also lead to considerable savings by preventing over use of steel and cement concrete.

4. To arrive at a national consensus about the prerequisites of a good zoo, Central Zoo Authority should organise a "Future Strategy Workshop".
5. With a view to discharge the statutory functions assigned to the Authority in an effective manner, it should have a scientific cell with experts on various disciplines related to zoo management.

OTHER IMPORTANT DECISIONS

The decision of the Central Zoo Authority not to grant recognition to the mobile zoos has been upheld by the Hon'ble High Court of Delhi. The zoos have been directed to surrender the animals in their stock.



Golden langur enclosure at Assam state Zoo, Gauhati.

CHAPTER - III

EVALUATION OF ZOOS

During the year under report, second round evaluation of all the large zoos were completed. Second round evaluation for five medium zoos and six small zoos were also completed. Out of the above zoos evaluated, following large and medium zoos were granted conditional recognition:-

A. LARGE ZOOS

1. Indira Gandhi Zoological Park, Visakhapatnam.
2. Nehru Zoological Park, Hyderabad.
3. Assam State Zoo, Guwahati.
4. National Zoological Park, New Delhi.
5. Kamla Nehru Zoological Park, Ahmedabad.
6. Sri Chamarajendra Zoological garden, Mysore.
7. Veermata Jijabai Bhosle Udyan, Zoo Mumbai.
8. Nandan Kanan Biological Park, Bhubaneswar.
9. M.C. Zoological Park, Chhatbir.
10. Arignar Anna Zoological Park, Chennai.
11. Kanpur Zoological Park, Kanpur.
12. Prince of Wales Zoological Garden, Lucknow.
13. Alipore Zoo, Calcutta.

B. MEDIUM ZOO

14. Van Vihar National Park, Bhopal.
15. Chennai Snake Park Trust, Chennai.
16. Children Corner Zoo, Guindy, Chennai.
17. Madras Crocodile Bank Trust, Mammalapuram.

Evaluation reports for four small zoos are yet to be decided. The recognition for the following zoos were withheld due to non-compliance of certain stipulated conditions.

A. LARGE ZOO

1. Sakkarbaug Zoo, Junagarh, Gujarat.

B. MEDIUM

2. Sayaji Bagh Zoo, Vadodara, Gujarat.

C. SMALL ZOO

3. Rajkot Municipal Corporation Zoo, Rajkot, Gujarat.
4. Maharaj Bagh Zoo, Nagpur, Maharashtra.

EVALUATION OF MINI ZOO

During the year under report 43 mini zoos were evaluated. Recognition was granted to 21 mini zoos and 22 zoos were refused recognition. The list of mini zoos granted recognition and refused recognition are at Annexure-III.



Composite enclosure of terai habitat at Lucknow zoo.

CHAPTER - IV

PLANNED BREEDING OF ENDANGERED SPECIES

1. As a follow up measure for planned breeding programme of Bengal Tiger, the animals of wild origin available with zoos in Madhya Pradesh had been moved to the identified zoos under the supervision of National coordinator for Bengal Tiger breeding programme.

The Gujarat forest department has agreed to give Asiatic lions to Indian zoos identified for breeding of the species. The animals are to be moved to the designated zoos soon.

2. A meeting of the Zoo Directors was organised by the Central Zoo Authority during Jan., 1998. Experts from various fields were invited to the deliberations held on zoo designing, collection planning, nutrition and health care.

EXCHANGE PROGRAMME

The Technical Committee of the Central Zoo Authority met on 19th August, 1997; 18th December, 1997 and 18th March, 1998. The Committee reviewed the exchange proposals submitted by zoos. On the basis of the decisions taken by this 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-IV.

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.	Nehru Zoological Park, Hyderabad.	Sangai	3
		Gaur	1
		Asiatic lion	4
2.	National Zoological Park, Delhi.	Chinkara	4
		Swamp deer	1
		Rhino	1
3.	Sakkarbaug Zoo, Junagarh.	Four horned Antelope	14
		Asiatic lion	5
		Chinkara	1
4.	Kamla Nehru Zoo, Ahmedabad	Mouse deer	2
5.	Sri Chamarajendra Zoo, Mysore.	Swamp deer	3
		Gaur	1
		Elephant	1
6.	Kanpur Zoo, Kanpur	Swamp deer	1
7.	Alipore Zoo, Calcutta.	Chinkara	2
		Sangai	3

S. No.	Name of the Zoo	Species	No. of Birth
8.	Lucknow Zoo	Swamp deer	4
9.	Indira Gandhi Zoo, Vishakhapatnam	Indian wolf	1
10.	Arignar Anna Zoo, Chennai	Sangai	2
		Nilgiri langur	2
		Lion-tailed macaque	1
		Indian rock python	4
11.	Assam State Zoo, Guwahati	Serow	2
		Leopard cat	3
		Golden langur	1
12.	Nandankanan Zoo, Bhubaneswar	Leopard cat	2
		Pangolin	1
13.	M.C. Zoological Park, Chhatbir.	Swamp deer	2
14.	Sanjay Gandhi Biological park, Patna.	Leopard cat	1



Red panda at PNHZP, Darjeeling.

CHAPTER - V

EDUCATION & 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. The IIInd Volume of the zoo year book was also published. A compendium consisting of research papers published by Indian Zoo veterinarians & directors on health and disease management was also published.
2. Sri Chamarajendra Zoological Park, Mysore; Sanjay Gandhi Biological Park, Patna; National Zoological Park, New Delhi; Arignar Anna Zoological Park, Chennai and Nandankanan Biological Park, Bhubaneswar continued to organise guided tours for the zoo visitors, to make the visits more rewarding and interesting.
3. Zoo Outreach Organisation continued to bring out Zoo Zen and Zoos Print. The two magazines continued to be an important source of technical information on scientific management of zoos.
4. Press conferences, television programmes and radio talks highlighting the conservation role of zoos were organised.
5. 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.



Education Programme at Nehru Zoological Park, Hyderabad.

CHAPTER - VI

RESEARCH AND TRAINING

1. A two weeks capsule course for zoo supervisors was organised at Kanpur Zoological Garden. The trainees were apprised of the modern concept of zoo designings collection planning. Information on planned breeding, programmes for endangered species was also provided.
2. 15 days training programme for zoo keepers was organised at Kanpur Zoo, Nehru Zoological Park, Sri Chamarajendra Zoological Park, Ahmedabad Zoo and Arignar Anna Zoological Park. All total 68 Zoo Keepers attended the course in the above said zoos.
3. Ms. Mamta Sharma, Director, Kanpur Zoo and Dr. Paneerselvam, Veterinary Officer, National Zoological Park, New Delhi participated in a three week course on conservation of endangered species at Jersey Wildlife Preservation Trust during July & August, 1997.
4. The Centre for Cellular and Molecular Biology (CCMB), Hyderabad continued to work on the projects associated with assisted reproduction and DNA finger printing of lions, tigers and other endangered species in zoos.
5. A study on social impact of mini zoos and deer parks in the country was awarded to three eminent institutes. Xavier institute of Management - Bhubaneswar; Indian Institute of Management - Bangalore and A.E.D.R. (J.N.U.) - New Delhi. The study was conducted in zoos of Eastern Region, Southern Region and Northern region of India respectively. The report of the study for the Northern region has been submitted. Report from other institutes are awaited.
6. A visitor response study in National Zoological park, New Delhi, was awarded to M/s. Mediastorm, New Delhi. The study has been concluded and the Technical Committee of the Central Zoo Authority has suggested that the recommendations may be utilised for improvement of the National Zoological Park.



Zoo keepers training programme at Kamla Nehru Zoo, Ahmedabad.

CHAPTER - VII

INTERNATIONAL CO-OPERATION

1. Shri C. Lachungpa, Director, Himalayan Zoological Park, Gangtok (Sikkim) and Shri Kiran Moktan, Supervisor, Padmaja Naidu Himalayan Zoological Park, Darjeeling attended a three weeks zoo, training on "Captive breeding master plan for Red Panda" at Marwell Zoological Park, U.K.
2. Dr. Bernard Harrison, Director Singapore Zoological Gardens, was invited to the Annual Zoo Directors Meeting, held in Mumbai during January, 1998. He presented a lecture on modern zoo architecture.



Dr. Bernard Harrison, Director Singapore Zoo, at the Annual Zoo Director Meeting.

CHAPTER - VIII

ADMINISTRATIVE MATTERS

The Central Zoo Authority adopted the recommendations of the Fifth Pay Commission report. The pay scales of the employees in the Authority were revised. The details are given below-

Name of the post	Scale of the Post posts	No. of	Name of incumbent
Finance Officer	8000-13500	1	Shri M.C. Bhatnagar
Private Secretary	6500-10500	1	Shri P.K. Kokel
Accountant	5500-9000	1	Vacant
Data Processing Assistant	5000-8000	1	Shri Dinesh Kr. Dharni
Personal Assistant	5000-8000	1	Smt. Seema Burreja
U.D.C.	4000-7000	1	Shri R.S. Rawat
L.D.C. (Nov. '97)	3050-4590	1	Shri Sanjay Kumar
Driver	3050-4590	1	Shri Hari Singh
Peon	2550-3200	2	Shri Thakur Das, Shri Pramod Kr. Jha

Efforts to fill the post of Evaluating and Monitoring Officer & Scientific Officer did not yield any results during this year also, because of assignment of pay scales too low for the functions expected from these officers. Therefore, these posts were treated as lapsed. However, Dr. J.H. Desai continued to work on consultancy basis for evaluation of zoos and provided technical assistance to

the Member Secretary on various aspects of zoo management, including zoo designing. Shri Bipul Chakraborty continued to work on contract basis to assist the Member Secretary in discharge of the statutory duties and preparation of database on zoos. Action for revival of the posts of Evaluating & Monitoring Officer and Scientific Officer is contemplated.

CHAPTER - IX

FINANCIAL MATTERS

During the year, Financial Assistance worth Rs. 321 lakhs was provided to 23 zoos. The list of zoos which received financial assistance from the Central Zoo Authority during 1997-98 is at Annexure-V.

Annual Accounts:

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

of Audit, Scientific Department on 14.5.98. The audit of accounts was carried out by a team from the office of the Principal Director of Audit Scientific Department from 3rd June to 19th June, 1998. The copies of the audited accounts for the year 1997-98 containing Receipts and Payments, Accounts, Income and Expenditure Accounts and the Balance Sheet as on 31.3.1998 together with the audit certificate are at Annexure-VI to IX.

F. No. 7-2/98-CZA
CENTRAL ZOO AUTHORITY
(Ministry of Environment & Forests)

Date: 19.2.1998

Annexure IV, Bikaner House
Shahjahan Road, New Delhi-110011.

Subject:- Constitution of a Technical Committee of the Central Zoo Authority - regarding

With the approval of MEF/Chairman, Central Zoo Authority, the Technical Committee is being reconstituted as follows:-

- | | |
|---|----------|
| 1. Additional Inspector General of Forests | Chairman |
| 2. Dr. B.M. Arora
Head, Div. of Epid.,
IVRI, Izatnagar, Bareilly (UP). | Member |
| 3. Director,
Wildlife Institute of India,
Chandrabani, Dehradun. | Member |
| 4. Dr. Ashok Singh,
5. Clive Road, Allahabad. | Member |
| 5. Dr. Nandita C. Krishna,
No. 1-A, Eldams Road,
Chennai-600018 (Tamil Nadu). | Member |
| 6. Dr. Iqbal Malik,
540, Asian Games Village,
Khet Gaon, New Delhi. | Member |
| 7. Shri Mir Inayat Ullah,
Retd. Chief Wildlife Warden,
Jammu & Kashmir. | Member |
| 8. Member Secretary
Central Zoo Authority. | Convener |
2. The main functions of the Technical Committee would be:-
- (i) To approve proposals for release of financial assistance to various zoos.
 - (ii) To approve exchange programme of zoo animals between Indian Zoos.
 - (iii) To make recommendations regarding exchange of animals with foreign zoos accepting gift animals from foreign zoos and to gift animals to foreign zoos.
 - (iv) to approve proposals for organising training programmes, workshops and meetings on various aspect of zoo management.

- (v) Screening of Research Projects on issue related with zoos for funding by the authority.
- (vi) To approve the proposals for grant of recognition to mini zoos.
- (vii) to make recommendations regarding grant of recognition to large, medium and small zoos.
- (viii) Any other function that may be assigned to it by the Central Zoo Authority from time to time.

(S. C. Sharma)
Member Secretary

Distribution:-

1. PS to MEF/ Chairman, CZA.
2. PPS to Secretary (E&F)/PPS to IGF.
3. PS to Addl., IGF (WL).
4. All Members of Technical Committee.

No. 7-2/98-CZA
CENTRAL ZOO AUTHORITY
(Ministry of Environment & Forests)

Annexe IV, Bikaner House,
Shahjahan Road, New Delhi.
Dated: 20-2-1998.

Subject:- Constitution of an Administrative Committee of the Central Zoo Authority.

With the approval of MEF/Chairman, Central Zoo Authority, Administrative Committee is reconstituted to advise the Central Zoo Authority on administrative matters consisting of the following:-

1. Inspector of General of Forests & Special secretary.	Chairman
2. Additional Inspector General of Forests (Wildlife)	Member
3. Joint Secretary/Financial Adviser M/o Env. & Forests.	Member
4. Joint Secretary (Admn.) M/o Env. & Forests.	Member
5. Director Wildlife Institute of India.	Member
6. Member Secretary Central Zoo Authority.	Convener

The main functions of the Committee are:-

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

(S.C. Sharma)
Member Secretary

Distribution:

PS to MEF/Chairman, CZA.

1. PPS to IGF/SS, M/o of Environment & Forests.
2. PPS to Addl. IGF (WL), M/o Environment & Forests.
3. PS to JS/FA. M/o Environment & Forests.
4. PS to JS (Admn.). M/o Environment & Forests.
5. Director. WII, Dehradun.

LIST OF MINI ZOOS RECOGNISED

I. ANDHRA PRADESH

1. Deer Park, Kandaleru.
2. Deer Park, Chittoor Reserve Forests, Chittoor East Division.
3. Jawahar Lake Tourist Complex, Shamirpet.
4. Pillaalmarri Deer Park, Mahbub Nagar.
5. Vanavigyan Kendra, Hanamkonda, Warangal.

II. BIHAR

6. Birsa Mrig Vihar, Kalamati.
7. Chandrapur Deer Park, Chandrapur.

III. DAMAN & DIU

8. Deer Park, Daman.

IV. HARYANA

9. Mini Zoo, Yadavanda Garden, Tourist Complex, Pinjore.

V. KERALA

10. Deer Park, Ponmudi, Thiruvanthapuram.
11. Lion Safari Park, Nayyar Dam, Thiruvanthapuram.

VI. TAMIL NADU

12. Amirdhi Zoo, Vellore.
13. Gangikondan Deer Park, Neelai Kottabomman.
14. Hogainakkal Mini Zoo, Dharmapuri.
15. Kurumbapatti Zoological Park, Salem.
16. VOC Park Mini Zoo, Erode.

VII. UTTAR PRADESH

17. Deer Park, Kukrail.
18. Gharial Rehabilitation Centre, Kukrail.
19. Indira Manoranjan Van (Deer Park) Mehewa, Lakhimpur Kheri.
20. Nawabganj Deer Park, Unnao.

VIII. WEST BENGAL

21. Deer Park, Dow Hill, Kurseong.

LIST OF MINI ZOOS-REFUSED RECOGNITION

ANDHRA PRADESH

MINI ZOOS

1. Deer Park, Municipal Park, Rajahmundry.
2. Himabindu Deer Park, Kurnool.

BIHAR

3. Muggar Breeding Centre, Muta, Ranchi

DAMAN & DIU

4. Deer Park, Diu.

DADRA & NAGAR HAVELI

5. Mini Zoo, Silvasa, Kahnvel.

HARYANA

6. Mini Zoo Madhuban.
7. Pheasant Breeding Centre, Morni, Distt., Ambala.

KARNATAKA

8. Mini Deer Park, Chickmagalur.
9. Mini Zoo, Maharaj Park Hassan.
10. Nature Park, Raichur.

KERALA

11. Crocodile Farm, Kozhikode.

12. Mini Zoo, Kodanadu.

13. Parassinikkadavu Snake Park, Kannur.

MADHYA PRADESH

14. S.F.R.I. Zoo, Jabalpur.

15. Indira Udyan, Bilaspur.

16. Mrignayni Deer Park, Pachmarhi.

MEGHALAYA

17. Tura Zoo, Akhongini, Tura.

PUNJAB

18. Mini Zoo, Bansar Bagh, Sangrur.

TAMIL NADU

19. Mini Zoo, Courtallam.

20. Montfort School Mini zoo, Yercaud, Salem.

UTTAR PRADESH

21. Deer Park, Air Force Station, Memaura.

ZOO WHICH WERE FOUND FAR BELOW THE STANDARD WERE NOT GRANTED RECOGNITION

1. Kanan Pendari Zoo, Bilaspur, M.P.

2. Vanchetna Kendra, Faizabad, U.P.

3. Vanyajantu Vihar, Dak Pathar, Dehradun, U.P.

**EXCHANGE PROPOSALS APPROVED BY THE CENTRAL ZOO AUTHORITY
DURING 1997-98**

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Receipient Zoo/ Organisation
A. EXCHANGE OF ANIMALS BETWEEN INDIAN ZOO'S				
1.	Kanpur Zoo	Leopard cat 2:2	Hippo 0:1	Sanjay Gandhi Park, Patna.
2.	V.J.B. Udyan, Mumbai.	Asiatic lion 1:2	Military macaw 1:1	Nehru Zoological Park, Hyderabad.
3.	Assam State Zoo, Guwahati.	Assamese macaque 3:3	Leopard 3:3	M.C. Zoological Park, Chatbir.
4.	Assam State Zoo, Guwahati	Golden langur 1:0	Capped langur 1:0	Sepahijala zoo, Agartala
5.	Assam State Zoo, Guwahati.	Bonnet macaque 2:2	Lion tailed macaque 0:1	Kanpur zoo.
6.	Kanpur Zoo.	Pigtailed macaque 0:1 Chinkara 1:0	Sangai 0:2	Lucknow zoo.
7.	Jaipur Zoo	Great Indian horn bill 1:0	—	Lucknow Zoo.
8.	Lucknow Zoo.	Slothbear 1:0	—	M.C. Zoological Park Chatbir
9.	M.C. Zoological Park, Chatbir	Chinkara 2:0	—	Bikaner Zoo.
10.	Bikaner Zoo.	Sloth bear 0:1	—	Jaipur Zoo.
11.	Nehru Zoological Park, Hyderabad	Reticulated python 1:3	—	Chennai Snake Park, Chennai.
12.	Lucknow Zoo	Hoolock gibbon 0:1	Bengal tiger 0:2	Krishna Giri X Upvn, Borivilli, Mumbai.

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Recipient Zoo/ Organisation
---------	--------------------------	------------------	---------------	-----------------------------

B. EXCHANGE/GIFT BETWEEN INDIAN & FOREIGN ZOO'S

1.	Assam State Zoo, Guwahati	Chimpanzee 2:3	Elephant 0:2	Beto Zoo, Brazil.
2.	Nandan Kanan Biological Park, Bhubaneshwar	Cassawaries 2:2 Blue & Yellow macaw 2:2 Green Winged macaw 2:2 Ostrich 2:2 Squirrel monkey 2:5	Bengal tiger (W) 1:1 Bengal tiger 1:1	Wonderland Zoo, Malaysia.
3.	Sri Chamarajendra Zoo, Mysore.	Rea 2:3 Hamadryas baboon 0:4	Bonnet macaque 0:5 —	Carl Hagerbeck Zoo, Germany. Frankfut Zoo, Germany.
4.	V.J.B. Udyan Zoo Zoo, Mumbai	—	Asiatic lion 1:2 Elephant 2:2	Yokohama Zoo, Japan.
5.	Govt. of U.P.	Snowleopard 1:1	Asiatic lion 0:1 Sloth bear 0:1	Moscow Zoo,

C. EXCHANGE PROPOSAL APPROVED BY THE MEMBER SECRETARY

1.	M.C. Zoological Park, Chatbir.	—	Lion 1:1	Sanjay Gandhi Biological Park, Patna.
2.	Jaipur Zoo	—	Muggers 0: 0:40	National & chambal Sanutuary
3.	Assam State Zoo, Guwahati.	—	Himalayan black bear 2:2	Indira Gandhi Zoo, Visakhapatnam.

Sl. No.	Name of zoo/organisation	Animals acquired	Animals given	Receipt Zoo/Organisation
4.	Assam State Zoo, Guwahati.		Himalayan black bear 2:2	Nehru Zoological Park, Hyderabad.
5.	Madras crocodile bank.		Gharial 0:1 Salt water crocodile 1:0	Arignar Anna Zoological Park, Chennai.
6.	Nandankanan Biological Park, Bhubaneswar.		Bengal tiger(W) 1:1	Lucknow Zoo
7.	Ramnabagan Wildlife Sanctuary, West Bengal.		Leopard 1:1	Jawaharlal Nehru Biological Park, Bokaro.
8.	Gujarat forest Dep.		Leopard 2:2	Kamla Nehru Zoo, Ahmedabad
9.	D.F.O. Civil Soyam Almora, U.P.		Leopard 2:0	National Zoological Park, Delhi.
10.	Peshwa Park, Pune.		Asiatic lion 1:0	V.J.B. Udyan Mumbai.
11.	Assam State Zoo, Gauhati.		Himalayan black bear 1:0	Himalayan Zoological Park, Bulbuley, Gangtok.
12.	National Zoological Park, Delhi.	Leopard 1:1 Bonnet macaque 2:2	Blue & Yellow macaw 1:1	Lucknow zoo.
13.	National Zoological Park, Delhi.		Hippopotanus 2:0	Jawaharlal Nehru Biological Park Bokaro.
14.	Pratap Sinh Udyan, Sangli.		Peacock 1:2	Nature Park, Karanja, Mumbai
15.	Sanjay Gandhi Biological Park, Patna.		Leopard 0:2	Bhagwan Birsa Biological Park, Ranchi.

FINANCIAL GRANT RELEASED TO ZOOS DURING THE YEAR 1997-98

Sl. No.	Name of the Zoo	Improvement of Animal Housing & Security for Animals	Improvement of Veterinary Care & Hygienic Supply of Food & Water	Maintenance of Healthy Environment in the Zoo	Zoo Education & Awareness	TOTAL
4	1 THIRUVANANTHAPURAM ZOO, THIRUVANANTHAPURAM, KERALA	30,00,000	0.0	0.0	0.0	30,00,000
9	2 VAN VIHAR NATIONAL PARK, BHOPAL, MADHYA PRADESH	26,42,600	3,25,000	0.0	0.0	29,67,600
	3 PADMAJA NAIDU HIMALAYAN ZOOLOGICAL PARK, DARJEELING, WEST BENGAL	8,05,000	20,76,000	0.0	0.0	28,81,000
	4 PRINCE OF WALES ZOOLOGICAL GARDENS, LUCKNOW, UTTAR PRADESH	6,45,000	2,00,000	16,55,00	0.0	25,00,000
	5 NEHRU ZOOLOGICAL PARK, HYDERABAD, ANDHRA PRADESH	17,50,000	5,00,000	0.	1,00,000	23,50,000
	6 TIGER SAFARI, LUDHIANA, PUNJAB	21,25,000	1,50,000	0.0	75000	23,50,000
1	7 KAMLA NEHRU ZOOLOGICAL GARDEN, AHMEDABAD, GUJARAT	20,50,000	50,000	0.0	0.0	21,00,000
	8 AURANGABADE MUNICIPAL ZOO, AURANGABAD, MAHARASHTRA	20,51,938	0.0	0.0	0.0	20,51,938
7	9 ASSAM STATE ZOO, GUWAHATI, ASSAM	18,70,000	86,000	0.0	0.0	19,56,000
	10 MAHENDRA CHAUDHURY ZOOLOGICAL PARK, CHHATBIR, PUNJAB	6,00,000.00	11,50,000	0.0	75,000	18,25,000
	11 ARIGNAR ANNA ZOOLOGICAL PARK, VANDALUR, TAMIL NADU	8,31,500	5,75,000	0.0	0.0	14,06,500
	12 KANPUR ZOOLOGICAL PARK, KANPUR, UTTAR PRADESH	7,00,000	6,50,000	0.0	0.0	13,50,000
5	13 SRI VENKATESWARA ZOOLOGICAL PARK, TIRUPATI, ANDHRA PRADESH	11,50,000	0.0	0.0	0.0	11,50,000
	14 HIMALAYAN ZOOLOGICAL PARK, BULBULEY, GANGTOK, SIKKIM	8,87,472	0.0	0.0	0.0	8,87,472
7	15 INDIRA GANDHI ZOOLOGICAL PARK, VISAKHAPATNAM, ANDHRA PRADESH	8,00,000	75,000	0.0	0.0	8,75,000
	16 ZOOLOGICAL PARK, ITANAGAR, ARUNACHAL PRADESH	8,12,100	0.0	0.0	0.0	8,12,100
	17 NANDANAN AN BIOLOGICAL PARK, BHUBANESWAR, ORISSA	3,50,000	2,35,000	1,50,000	0.0	7,35,000
	18 SRI CHAMARAJENDRA ZOOLOGICAL GARDENS, MYSORE, KARNATAKA	6,00,000	0.0	0.0	0.0	6,00,000
	19 CHILDREN'S CORNER, GUINDY, TAMIL NADU	50,000	1,25,000	0.0	50,000	2,25,000
	20 ZOOLOGICAL GARDEN, ALIPORE, WEST BENGAL	0.0	50,000	0.0	0.0	50,000
	21 JODHPUR ZOO, JODHPUR, RAJASTHAN	0.0	50,000	0.0	0.0	50,000
	22 AIZAWL ZOO, AIZAWAL, MIZORAM	0.0	14,700	0.0	0.0	14,700
	23 CHENNAI SNAKE PARK TRUST, GUINDY, TAMIL NADU	12,101	0.0	0.0	0.0	12,101
	TOTAL	2,37,32,711	63,11,700	18,05,000	3,00,000	3,21,49,411

CENTRAL ZOO AUTHORITY
(Ministry of Environment and Forests)
Receipts and Payments Account for the Year ending 31.3.1998

Receipts	Rs.	Payments	Rs.
To Opening Balance on 1.4.1997	30,23,651.10	By Grant to Zoos	3,21,49,411.00
To Grant-In-Aid from Central Government	3,80,00,000.00	By Salaries	12,27,397.00
To Recoveries from Pay Bills adjustable by other Depts./Bodies.	1,01,040.00	By Wages	64,783.00
To Recoveries of Festival Advance	0.00	By Stationery	59,261.00
To Fees received from Zoos with applications of Recognition/Renewal	11,700.00	By Printing, Binding & Publications	4,48,915.00
To Refund of Security Deposits	15,000.00	By Furniture, Fixture & Furnishing	5,641.00
To Misc. Receipts		By Conveyance & Cartage	14,687.00
(i) Staff Car Recoveries	4,550.00	By Travelling Allowance	
(ii) Other Misc. Recoveries	5,080.00	(i) TA operational	2,87,498.00
To Interest on Fixed Deposit	0.00	(ii) TA for Evaluation of Zoos	6,10,278.00
To Sundry Deposits	10,000.00	(iii) TA for Training, Education	
To Income Tax Recovered	91,777.00	International Workshop & Conference	1,15,342.00
To Licence Fee	8,640.00	By Fees & Honorarium	12,450.00
		By Telephone Charges :	
		(i) Telephone Deposit	0.00
		(ii) Telephone Charges	1,55,331.00
		By Books & Periodicals	16,839.00
		By Postage & Telegram	46,209.00
		By Evaluation of Zoos	12,894.00
		By Bank Commission	580.00
		By Refreshment	7,766.00
		By Misc. Expenses	1,00,466.00
		By Advertisement & Publicity	1,35,595.00
		By O.T.A.	21,842.00
		By Hiring Accommodation for M.S.	35,000.00
		By Medical Expenses	18,602.00

Contd....

Receipts and Payments Account for the Year ending 31.3.1998—Concl'd.

Receipts	Rs.	Payments	Rs.
		By Festival Advance	0.00
		By Training, Education, International Workshop and Conferences	14,64,535.00
		By Security Deposits	0.00
		By Petrol, Oil & Lubricant Account	25,157.00
		By L/S & Pension Contribution	3,08,270.00
		By Income Tax Deposited	87,622.00
		By Remittance to other Govt. Depts./ other Bodies deduction from staff taken on Foreign Services	1,01,040.00
		By Audit Fees	17,650.00
		By Research Work Projects	15,61,350.00
		By GPF Advance	0.00
		By Bonus	17,579.00
		By LTC	5,378.00
		By Sundry Deposits Released	5,000.00
		By Repairs & Maintenance	1,93,953.00
		By Legal Expenses	56,863.00
		By Cash Balance—	
		Cash at Bank	18,30,334.10
		Cash in Hand	4,203.00
		Imprest	5,000.00
Total	4,12,71,438.10		4,12,71,438.10
Details of Opening Balanc			
(i) Cash in Hand	3,905.00		
(ii) Cash in Bank	30,14,746.10		
(iii) Imprest	5,000.00		

**Member Secretary
Central Zo Authority
New Delhi**

Central Zoo Authority
(Ministry of Environment and Forests)
Income and Expenditure Accounts for the Year ending 31.03.1998

Expenditure	Rs.	Income	Rs.
To Grant to Zoos	3,21,49,411.00	By Grant-In-Aid from Central Government	3,80,00,000.00
To Research Work Projects	15,61,350.00	By Recoveries from Pay Bills adjustable by other Depts./Bodies	1,01,040.00
To Salaries	12,27,397.00	By Fees received from Zoos with applications of Recognition/Renewal	11,700.00
To Wages	64,783.00	By Misc. Receipts	9,630.00
To Stationery	59,261.00	By Interest on Fixed Deposit	0.00
To Printing, Binding & Publications	4,48,915.00	By Income Tax Recovered	91,777.00
To Conveyance & Cartage	14,687.00	By Licence Fee	8,640.00
To TA Operational	2,87,498.00	By Excess of Expenditure over Income	11,45,072.00
To TA for Evaluation of Zoos	6,10,278.00		
To TA for Training, Education, International Workshop & Conferences	1,15,342.00		
To Fees & Honorarium	12,450.00		
To Telephone Charges	1,55,331.00		
To Postage & Telegram	46,209.00		
To Evaluation of Zoos	12,894.00		
To Bank Commission	580.00		
To Refreshment	7,766.00		
To Misc. Expenses	1,00,466.00		
To Advertisement & Publicity	1,35,595.00		
To Bonus	17,579.00		
To O.T.A.	21,842.00		
To Hiring Accommodation for M.S.	35,000.00		

Contd....

Income and Expenditure Accounts for the Year ending 31.03.1998—Concl'd.

Expenditure	Rs.	Income	Rs.
To Medical Expenses	18,602.00		
To Training, Education, International Workshop and Conferences	14,64,535.00		
To Petrol, Oil & Lubricant Account	25,157.00		
To L/S & Pension Contribution	3,08,270.00		
To Income Tax Deposited	87,622.00		
To Audit Fees	17,650.00		
To Remittance to other Govt. Depts./other Bodies deduction from staff taken on foreign Services	1,01,040.00		
To LTC	5,378.00		
To Repairs & Maintenance	1,93,953.00		
To Legal Expenses	56,863.00		
To Income Tax Payable	4,155.00		
To Excess of Income over Expenditure	0.00		
Total	3,93,67,859.00		3,93,67,859.00

**Member Secretary
Central Zoo Authority
New Delhi**

CENTRAL ZOO AUTHORITY
(Ministry & Environment & Forest)
Balance Sheet as on 31st March, 1998

LIABILITIES		AMOUNT	ASSETS		AMOUNT
1. Central Zoo Authority Fund		41,07,010.10	1. Fixed Assets		
2. Sundry Creditors		—	(I) Furniture		7,82,774.00
3. Gifts and Donations		—	(II) Vehicles		2,33,256.00
4. Current Liabilities and Provision		—	(III) Equipment & Machinery		9,87,150.00
5. Income Tax Payable		4,155.00	(IV) Books & Periodicals		2,68,448.00
6. Sundry Deposits		5,000.00	2. Advances		—
			3. Security Deposits		5,000.00
			4. Gifts and Donations		—
			5. Sundry Debtors		—
			6. Investments (CZA Fund)		—
			7. Cash and Bank Balance		
			(I) Cash at Bank		18,30,334.10
			(II) Cash in Hand		4,203.00
			(III) Imprest		5,000.00
TOTAL		41,16,165.10	TOTAL		41,16,165.10

Member Secretary
Central Zoo Authority
New Delhi

Annexure-IX

AUDIT CERTIFICATE

I have examined the Receipts & Payments Account, Income & Expenditure Accounts for the year ended 31st March 1998 and the Balance Sheet as on 31st March 1998 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 explanations given to me and so shown by the books of the organisation.

New Delhi
Date 12th November 1998

Principal Director of Audit
Scientific Department

Front Cover : 'Serow'—Assam State Zoo, Guwahati.
Back Cover : 'Sangai'—Manipur brow antlered deer.
Printed at : Akashdeep Printers, 20, Ansari Road, Daryaganj, New Delhi-110 002

Front Cover : 'Serow'—Assam State Zoo, Guwahati.

Back Cover : 'Sangai'—Manipur brow antlered deer.

Printed at : Akashdeep Printers, 20, Ansari Road, Daryaganj, New Delhi-110 002

