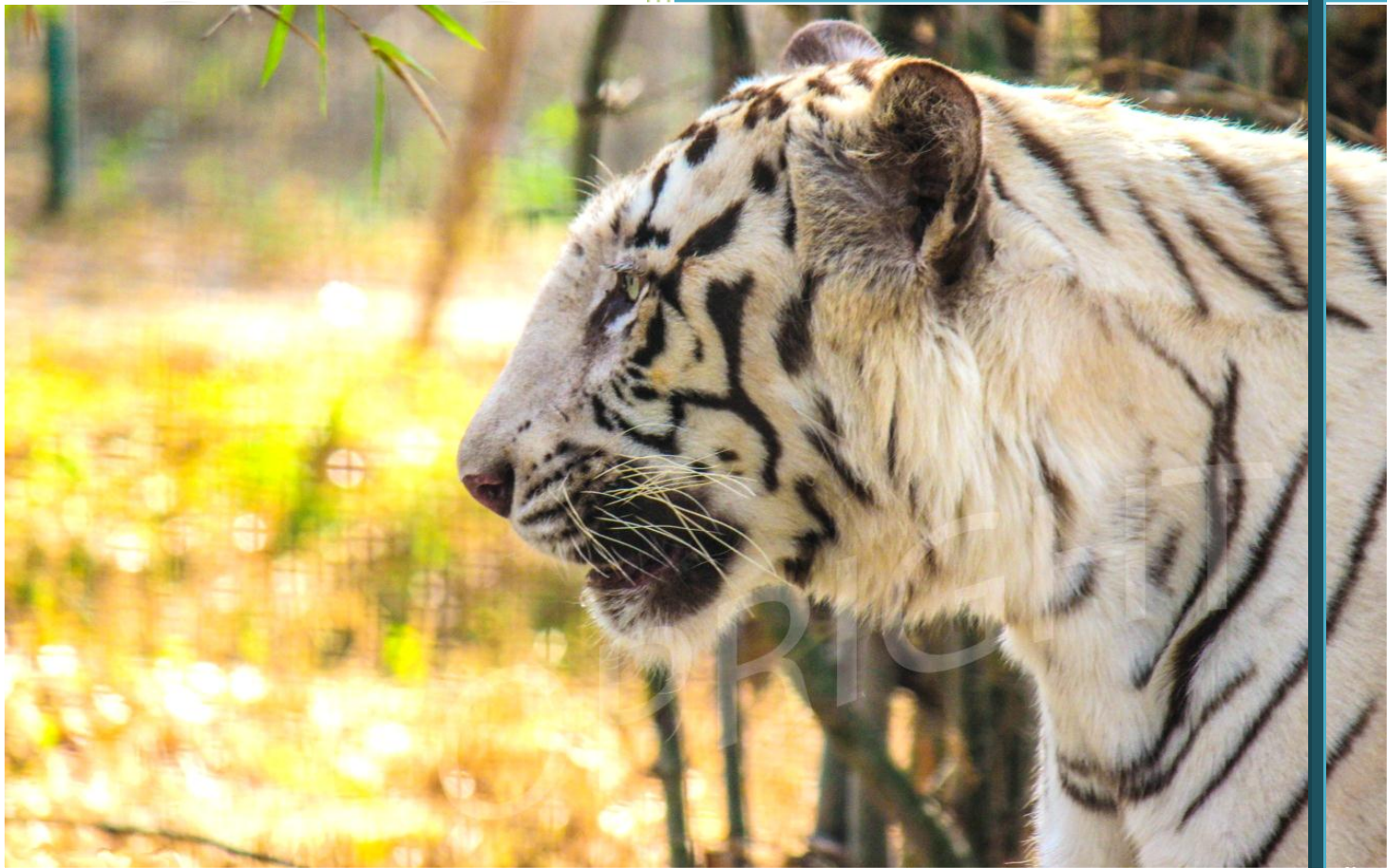


# 2016-17

## Annual Report



**Arignar Anna Zoological Park**

Vandalur, Chennai



## *Message from the Director's Desk*

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Arignar Anna Zoological Park is one of the largest Zoo catering to the needs of conservation of wild animals in particular to conservation of threatened and endangered species of Western and Eastern Ghats. Arignar Anna Zoological Park acts as home to the abandoned and rescued animals from the wild and also to the large number of rescued Tiger and Lions from the circus. Arignar Anna Zoological Park is one of the ex-situ conservation centers in the country that has a history of successful breeding of many endangered wild animals in captivity.

Every effort has been made to provide required housing, feed and health care to all the animals in the zoo and rescue center. The management is also involved in trapping the menacing monkey populations within the city of Chennai. The trapped monkeys are brought to the zoo where vasectomy operations are done to the animal and it is released into the Forest area after its recovery from the surgery.

The number of visitors visiting to the Arignar Anna Zoological Park is increasing year after year. Adequate measures are carried out to provide required visitor amenities like Rest Shelters, Drinking Water, Toilets and Eatery points.

The Zoo education wing has imparted training and conducted awareness programmes to specific target viz., students and teachers. The training programmes include lectures and presentation by the resource persons and screening films with a message on wildlife conservation in the forenoon and guide tour inside the zoo in the afternoon.

Animal health care is an important function in the zoo and our endeavor is to ensure that the animals are screened regularly for occurrence of any disease, timely prophylactic measures are taken. The animal sanitation and hygiene is also maintained well. The sustained work by the Zoo Veterinarians and the Biologists has made all this possible. The regular observation on behavior of animals gives timely warning on the condition of animal so that those animals in need are attended on priority. The change in behavior of animals, deviation due to stress, malnourishment, social disharmony and boredom is an indicator for urgent attention and action.

During the year, Arignar Anna Zoological Park accomplished successful breeding of Lion Tailed Macaque, Nilgiri langur, Indian Gaur, white peacock , Alexandrine Parakeet, Painted stork , Grey heron, Egrets etc.,

Arignar Anna Zoological Park has added Swamp deer, Hog deer and Blue & Golden Macaw to the zoo by obtaining these species from Lucknow Zoological Gardens. Hog deer and Rhea birds were obtained from Thiruvananthapuram Zoo. Black swan, Wallaby, Swamp deer and Wolf are obtained from Sri Chamarajendra Zoological Gardens, Mysore.

The Arignar Anna Zoological Park, Vandalur was severely affected by the “Vardah” Cyclone on 12.12.2016. Restoration works were carried out on war footing manner to ensure the animal safety and well-being. The zoo was opened back to the public on 10.02.2017. The zoo entry ticket was raised from Rs.20 to Rs. 50 for adults and from Rs.10 to Rs.20 for children. This is expected to increase the zoo revenue which in turn will be used for upgrading the zoo management activities.

New schemes like providing Live Streaming Facility of important animals and On-Line Ticketing for zoo entry were made as special announcements by then Hon'ble Chief Minister of Tamil Nadu. Works to implement these are under progress.

The zoo staffs work with sincerity and devotion to their job in order to ensure a healthy environment for animals. In spite of the constraints of the inadequate staff and occurrence a grave natural disaster like Vardah cyclone, I appreciate everyone in the Zoo for having made it a successful year in the maintenance of the zoo.

*Additional Principal Chief  
Conservator of Forests & Director*



## **MISSION**

- To serve as a dynamic nature conservation centre by promoting breeding programme for rare and endangered species of the Western and Eastern Ghats.
- To encourage the people to develop a caring attitude towards flora and fauna
- To offer excellent public service, recreation, and to provide eco-awareness to public.

## **OBJECTIVES**

- Ex-situ conservation and propagation of the fauna of Western and Eastern Ghats.
- Initiate captive breeding programme for endangered species in accordance with the protocol for rehabilitation of this species in the wild if necessary.
- Promote zoo as a center of conservation awareness through wild life education and interpretation programme to elicit the public support from different sections of the society and to enhance public awareness on wild life.
- Provide opportunity to conduct scientific studies on the fauna in order to enhance the knowledge on animal behaviour, its biology, ecology etc., so as to aid in scientific management of the zoo and conservation of wildlife.
- To provide facility for health care and rehabilitation of rescued animals.

## ARIGNAR ANNA ZOOLOGICAL PARK

The history of Chennai Zoo (formerly known as Madras Zoo) dates back to the year 1855. This was the first Zoo to be formed in India. The idea of collection of animals and maintaining at one place was mooted in 1855 by Dr. Edward Belford of the Madras Museum. He kept a small collection of animals near the Madras museum. The menagerie was later transferred to the Madras Corporation. The animals were housed in a Zoo over an area of 12.03 acres behind the then Moore Market Complex near Central Station for about 125 years. The Corporation Zoo was visited and appreciated by many distinguished visitors in those days. Jawaharlal Nehru once visited the Zoo and praised the standard of maintenance, care and effort taken by the then Curator Thiru.Ramanunjalu.

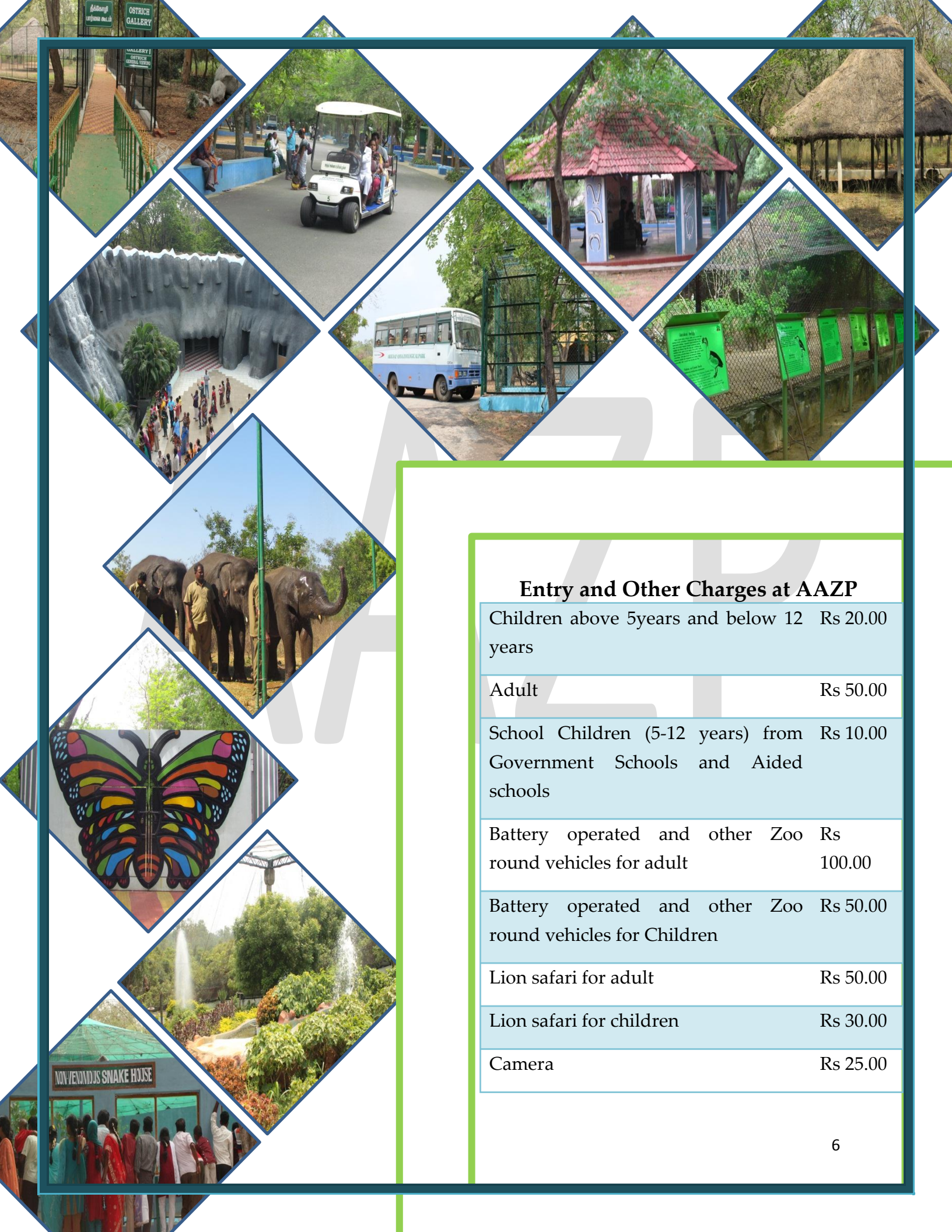
As the Zoo was quite cramped and did not meet the biological and behavioural needs of the animals, decision was taken to shift the zoo to an alternative site where adequate land to develop the required infrastructure for a modern zoo was available. After detailed investigation the Vandalur Reserve Forest was selected for this purpose. This place sprawling over an area of about 510 ha (in its initial stages) provided an environment similar to natural wilderness which helped to meet the biological and physiological need of the animals and birds. The present area of the zoo has requisite natural vegetation for creating the naturalistic environment at the zoo. Arignar Anna Zoological Park is one of the biggest zoos in South East Asia extending over an area of 602 ha. The estimated initial cost of the project was about Rs. 7.30 crores. The zoo was opened to public during the year 1985. The existing landscape was utilized as it is and all the animals were exhibited in large open moated island type enclosure with simulated environment. The entire area was clothed with vegetation both by mostly by natural and some artificial regeneration.

Arignar Anna Zoological Park is one of the modern and scientifically managed zoos of the Country with 259 full time staff and additional contract workers. This Zoological Park is the pride of the Tamil Nadu. It has attained excellence in the Captive Breeding Programme for endangered species and also in the field of zoo education by creating awareness about the conservation of natural resources. The functions carried out in the zoo include Animal welfare, Commissary (Store), Transport, Research, Education and Awareness, Veterinary, Horticulture, Security and Sanitation and Zoo administration. The zoo has a well-equipped zoo kitchen, zoo hospital and quarantine area facility. A zoo school was opened in the year 2000 for the teachers, students and general public where regular zoo education and conservation programmes are conducted. The zoo has adequate number of Battery Operated vehicles and Road trains to transport visitors to the animal area through the network of internal roads. Several service roads have been laid for serving the animal enclosures.

- Number of Animal Houses – 89 Nos.
- Zoo Holiday – Every Tuesday
- Zoo Timing – 9.00 am to 6.00 pm
- Area – 602 hectares
- Location – Vandalur RF, Kanchipuram District

S.No.	Class	No. of species	No. of animals
1	Mammals	43	445
2	Birds	93	1433
3	Reptiles	33	424
<b>Total</b>		169	2302

*Abstract of Captive Animals as on 31.3.2017*



### Entry and Other Charges at AAZP

Children above 5years and below 12 years	Rs 20.00
Adult	Rs 50.00
School Children (5-12 years) from Government Schools and Aided schools	Rs 10.00
Battery operated and other round vehicles for adult	Zoo Rs 100.00
Battery operated and other round vehicles for Children	Zoo Rs 50.00
Lion safari for adult	Rs 50.00
Lion safari for children	Rs 30.00
Camera	Rs 25.00

**TAMILNADU FOREST DEPARTMENT**  
**ARIGNAR ANNA ZOOLOGICAL PARK**  
**VANDALUR, CHENNAI, TAMILNADU - 600 048**



**LAY OUT MAP**

VANDALUR RAILWAY STATION

VANDALUR R.F.

VANDALUR R.F.

NEDUNKUNDRAM LAKE

KOLAPAKKAM R.F.

CHENNAI  
 G.S.T. ROAD  
 CHENGALPET  
 KELAMBAKKAM ROAD

**LEGEND**

- Gate
- Drinking Water
- Road - Street
- Trail
- Open Well
- Pump House / Overhead Tank
- Waterless Pond
- Well
- Electricity Power Station
- Leak
- Exclosure - Filled into the Zoo
- Leisure
- Playground
- Fountain
- Buildings
- Quarantine
- Veterinary Hospital
- Car Parking
- Zoo Boundary
- Control signal area

- Water Road - width 10 Ft.
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S.No.	Name	Area in Sq. Meters	Area in Hectares	S.No.	Name	Area in Sq. Meters	Area in Hectares
1	ENTRANCE GATE	2000	0.2	1	ENTRANCE GATE	2000	0.2
2	DRINKING WATER	1000	0.1	2	DRINKING WATER	1000	0.1
3	ROAD - STREET	10000	1.0	3	ROAD - STREET	10000	1.0
4	TRAIL	5000	0.5	4	TRAIL	5000	0.5
5	OPEN WELL	100	0.01	5	OPEN WELL	100	0.01
6	PUMP HOUSE / OVERHEAD TANK	500	0.05	6	PUMP HOUSE / OVERHEAD TANK	500	0.05
7	WATERLESS POND	1000	0.1	7	WATERLESS POND	1000	0.1
8	WELL	100	0.01	8	WELL	100	0.01
9	ELECTRICITY POWER STATION	500	0.05	9	ELECTRICITY POWER STATION	500	0.05
10	LEAK	100	0.01	10	LEAK	100	0.01
11	EXCLOSURE - FILLED INTO THE ZOO	10000	1.0	11	EXCLOSURE - FILLED INTO THE ZOO	10000	1.0
12	LEISURE	10000	1.0	12	LEISURE	10000	1.0
13	PLAYGROUND	10000	1.0	13	PLAYGROUND	10000	1.0
14	FOUNTAIN	1000	0.1	14	FOUNTAIN	1000	0.1
15	BUILDINGS	10000	1.0	15	BUILDINGS	10000	1.0
16	QUARANTINE	1000	0.1	16	QUARANTINE	1000	0.1
17	VETERINARY HOSPITAL	1000	0.1	17	VETERINARY HOSPITAL	1000	0.1
18	CAR PARKING	10000	1.0	18	CAR PARKING	10000	1.0
19	ZOO BOUNDARY	100000	10.0	19	ZOO BOUNDARY	100000	10.0
20	CONTROL SIGNAL AREA	1000	0.1	20	CONTROL SIGNAL AREA	1000	0.1



## Zoo Authority of Tamil Nadu

In accordance with the guidelines from the CZA and with an objective to facilitate supervision, control and management of AAZP and for easy flow of funds for the development and better management of the zoo, the Government of Tamil Nadu approved the formation of Zoo Authority of Tamil Nadu vide G.O.Ms.No.314 E & F (FR-V) Department dated: 03.12.2004.

### Objectives of formation of Zoo Authority of Tamil Nadu

1. To develop and maintain AAZP and Children's Park in a self-sustaining manner by receiving and utilizing the funds from Central and State Government etc.
2. To create understanding and awareness about Flora and Fauna through educational programmes
3. To undertake research on wildlife
4. To procure animals for zoos through exchanges.

Governing Board of the Zoo Authority of Tamil Nadu constitutes Hon'ble Chief Minister of Tamil Nadu as Chairperson, Hon'ble Minister for Forest as Vice-Chairperson, Secretary to the Government, E&F Department as Chairman, the other members of the Board includes - Secretary to the Government (Finance Department), Secretary to the Government (Animal Husbandry and Fisheries Department), Principal Chief Conservator of Forest, Vice-Chancellor of Tamil Nadu Veterinary and Animal sciences University, Chennai, Director of Environment, Commissioner (Tourism Department), Chief Wildlife Warden and the Member

## Zoo Technical Advisory Committee

The formation of Technical Advisory Committee was approved by the Government in the 14<sup>th</sup> Governing Board on 28.04.2011 with the aim of scientific management of Arignar Anna Zoological Park. The first meeting of the Technical Advisory Committee of Arignar Anna Zoological Park, Vandalur was held on 27.03.2017. The committee members include the senior officers of the Tamilnadu Forest Department in service and retired who have wide experience in Zoo Management to provided suggestions for the betterment of the zoo.

# Salient features of Captive Animal Management (2011-12 to 2016-17)

## BEHAVIORAL MANAGEMENT

Animal behaviour is the standard for judging their physical and psychological well being. Behavioural management is a proactive approach designed to provide better care and highest level of well being by manipulating key elements in captive environment to achieve changes in animal behaviour to resemble closely that of the conspecific animal in the wild.

- Suitable environment enrichment facilities have been provided to simulate the natural ambience and to manipulate the critical components in the animal enclosure. Ex. Wallowing facility for tigers, elephants, sambar; perching facilities for birds; climbing facilities for primates etc.
- Positive reinforcement techniques like food rewards, praise, tactile contact, release to favoured place etc. have been followed.



## VETERINARY CARE



All the zoo animals are regularly screened for diseases by the three veterinary doctors of the zoo. The zoo veterinary doctors desensitize animals for specific experience so as to make the animal tolerate the zoo conditions. Ex. Preparing animals for collection of blood samples and dispensation of injections.

## MANAGING SOCIAL INTERACTIONS

Housing social animals in social groups and co-operative feeding are regularly followed. Ex. Reinforcing dominant animals so as to allow the sub-dominants to receive feed, attention etc.



## MAINTAINING PSYCHOLOGICAL WELLBEING



Organizing programmes like sensory stimulation (presence of feed), mental challenge (searching the hidden feed), species appropriate physical activity (encouraging arboreal life) etc. are practised regularly.

## SUMMER MANAGEMENT

Usually the animals are under severe stress during summer. In order to improve the comfort level, heat relief measures were undertaken during last year:

- All deer enclosures were provided with new thatched sheds.
- All elephants in the zoo were given shower and allowed to wallow twice every day to provide relief from heat.
- Sprinkling of water was arranged in enclosures housing ostrich, terrestrial birds, zebra and giraffe and also in the walk through aviary for birds.
- Serpentarium was provided with mud mounds and mud pots in multiple tiers to ensure differential temperature for facilitating their different physiological functions. Snakes require variable temperatures for digestion, moulting and reproduction.
- Special dietary arrangements were made for primates, bears, elephants and birds to keep them at ease.
- Shade nets cutting off sunlight are provided at aviaries, ostrich and white tiger enclosures.



## SPECIES RENEWAL / EXCHANGE OF ANIMALS

Inbreeding among zoo population is an important problem. Inbreeding results in erosion of genetic vigour. Hence new blood lines are introduced to maintain the genetic vigour of the animals for important species. Animal exchange is a standard practice wherein the surplus / single animals are exchanged between the zoos to balance their sex ratios.



Financia l Year	Mammals		Birds		Reptiles		Total	
	Species	Animals	Species	Animals	Species	Animals	Species	Animals
2011-12	44	394	70	716	29	280	143	1390
2012-13	45	391	67	764	29	279	141	1434
2013-14	46	407	79	773	33	318	158	1498
2014-15	46	455	81	1035	33	351	160	1841
2015-16	43	451	92	1312	35	379	170	2142
2016-17	43	446	93	1428	33	429	169	3303

## SPECIES ADDED TO THE ZOO ANIMAL COLLECTION

S.No	Obtained Species Name	Numbers	Source	Exchanged Species Name	Numbers
1	Wild ass	1:1	Sakkarbaug zoo, Junagadh	Nilgri Langur Ostrich palm Civet cats	1:1 1:1 1:1
2	Royal Bengal Tiger	1 Female	Vishakapatnam zoo	Gaur	1 Female
3	Dwarf Caiman West African crocodile	1:1 1:1	Madras Crocodile Bank	-	-
4	Black Swan Wallaby Swamp deer Wolf	1:1 1:1 2:3 1	Sri Chamarajendra Zoological Garden, Mysore	Nilgri Langur Ostrich Reticulated Python	1:1 1: 1:2
5	Swamp Deer Hog deer Blue and Golden Macaw	1:1 1:2 1:1	Lucknow Zoological Gardens	Lion Tailed Macaque	1:1
6	Blue and Golden Macaw Cockatoo Hill Myna Chestnut-winged Cuckoo Salty breasted rail Common kestral coucal Ashy prinia	1:1 1:1 1 1 3 1 1 2	Local Sources	-	-
7.	King cobra	2 male	Pilikula Biological Park Mangalore	-	-

## CAPTIVE BREEDING

AAZP creates and maintains consistent conditions for appropriate breeding, reproductive behaviour and normal development of young ones.

Name of the species bred at AAZP	Between 2011- 12 to 2015-16
Royal Bengal tiger (including white tiger)	24
Lion tailed macaque	11
Nilgiri langur	12
Indian gaur	24
Blackbuck	7
Wild dog	8
Palm civet cat	6
Common peafowl	5
Barking deer	5
Rhesus macaque	7
Bonnet macaque	2
Wild boar	10
Nile hippopotamus	4
Ostrich	15
Red sand boa	5
Lion	1



## NAMING OF CUBS AND CALVES BY HON'BLE CHIEF MINISTER

Hon'ble Chief Minister of Tamil Nadu has visited the Arignar Anna Zoological Park, Vandalur on 15.03.2013 and named the four white tiger cubs and three normal coloured tiger cubs. Hon'ble Chief Minister of Tamil Nadu has also visited the Arignar Anna Zoological Park, Vandalur on 12.11.2013 and named four Indian gaur calves on 15.11.2013.

Name of the Bengal tiger cubs (normal colour)	Name of the white tiger cubs	Name of the lion cubs	Name of the Indian gaur calves
Nethra	Arjuna	Veera	Arun
Vidhya	Athraya	Neela	Bheema
Aarthi	Kauvery	Kala	Karnaa
Karna	Chitra	Maya	Shivaa
Adhithya	Thara		
Anitha	Meera		
Preetha	Beema		
Sunitha			
Sangeetha			
Deva			
Nakula			
Kala			
Mala			



## RESCUE AND REHABILITATION

Arignar Anna Zoological Park, Vandalur with full fledged veterinary facilities provides an excellent sojourn for the abandoned / rescued / strayed wild animals as described below:

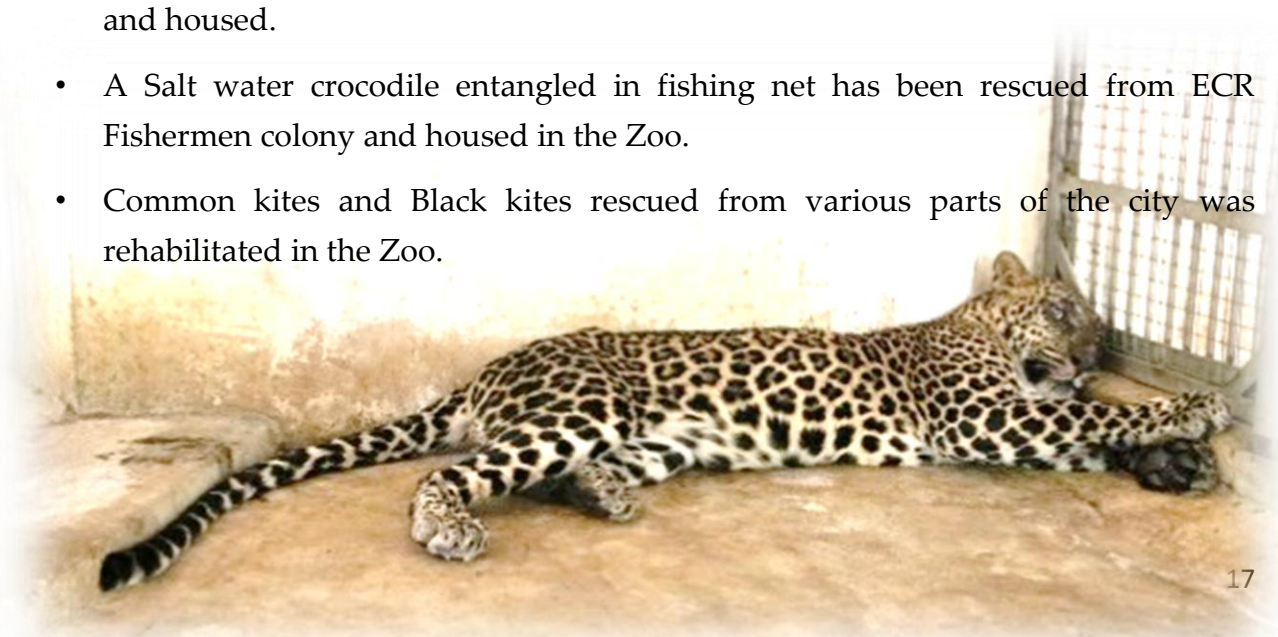
- A four month old female Royal Bengal tiger cub, abandoned by her mother was rescued from Sathyamanagalam forests and brought to the zoo for handrearing on 24.02.2014.



- A pair of otter puppies abandoned by their mother at Hogenakkal were rescued and brought to the zoo for hand rearing. Later, they were shifted to otter exhibit for public display.

- Five wild piglets were rescued from Vellore forest area and brought to the zoo for hand rearing.
- Five ostrich chicks were in danger of getting trampled by parents and timely action was taken to separate them from the parents and put on hand rearing at the zoo.
- One pangolin rescued from Chengalpet forest was put on hand rearing and released in the wild.
- Eight young fawns of spotted deer rescued from the jackals' attack were also put on hand rearing.
- A hill myna rescued from Coimbatore was brought to the zoo veterinary hospital for handrearing.
- Sulphur-crested cockatoo rescued from Chennai city was brought to the zoo veterinary hospital for handrearing.

- A blue and golden macaw, rescued from a pet shop was brought to the zoo veterinary hospital for handrearing.
- Fifteen infants of bonnet macaques have been successfully handreared in the zoo veterinary hospital and released back into the wild.
- Chicks of Parakeets rescued from Villupuram Division and rehabilitated.
- 10 Nos. of monitor lizards which have been rescued from the poachers in Hosur have been received and rehabilitated in reptile house in Arignar Anna Zoological Park, Vandalur. All the monitor lizards except one have survived. The monitor lizards are displayed to visitors.
- 40 Nos. little Cormorants rescued from Chennai and housed in Zoo.
- A male panther man-eater was rescued from Thimbam, Sathyamangalam and rehabilitated in Zoo. A backbone fractured panther cub rescued from Valparai and housed in Zoo.
- A male panther cub of one year old which got severely injured in a snare trap in Lovedale, Ooty has been brought to zoo Veterinary Hospital on 06.03.2016. Necessary surgical procedure and other treatments have been provided by drawing the experts from Madras Veterinary College, Veperi along with our Zoo Vets. The panther cub has been fully treated and the animal is showing complete recovery.
- An electrocuted bonnet macaque with second degree burns, rescued by Blue Cross has been handed over to Zoo. It has been treated and housed in Zoo.
- An injured Indian vulture was rescued from Thiruvallur Division and treated and housed.
- A Salt water crocodile entangled in fishing net has been rescued from ECR Fishermen colony and housed in the Zoo.
- Common kites and Black kites rescued from various parts of the city was rehabilitated in the Zoo.



## REINTRODUCTION INTO THE WILD



- Young and juvenile pythons hatched in the zoo have been reintroduced into the wild in their home range at Kalakad-Mundanthurai Tiger Reserve.

- Two troops consisting of six lion tailed macaques were moved to off-exhibit enclosures. Three successful births was achieved. The soft release will be made in the wild after following the protocol.

## PRE, PERI AND POST-PARTURIENT MANAGEMENT



- New yard and kraal facilities was provided for Indian gaur, deer, Royal Bengal tiger, white tiger and wild boar to ensure safe birth and protection.

- During the parturient period the animals are specially monitored through CCTV cameras.

- Successful births in the species of Royal Bengal tiger, white tiger, Indian gaur, black buck and barking deer was recorded.

## HAND REARING OF ORPHANED ELEPHANT CALVES

Displaced, disoriented and abandoned elephant calves (4 Nos.) were rescued from the wild and was housed at AZZP. These animals were handreared with suitable facilities for imprinting companionship (learning from other elephant calves) and feeding protocols.

- The eldest elephant Saravanan has attained adolescence and was shifted to elephant camp at Anamalai Tiger Reserve.
- A female elephant calf abandoned by her natal herd was brought to Arignar Anna Zoological Park from Sathyamangalam and was handreared as the calf was in very bad state of health. The calf was names as Prakriti. The calf is growing up well at AAZP.



# NEW HIGHLIGHTS OF AAZP

## FRONTAGE

The facelift of zoo entrance was completed and the refurbished entrance was inaugurated by the Honourable Chief Minister on 19-06-2012. Now, Arignar Anna Zoological Park, Vandalur has become an important landmark of Tamil Nadu with its dynamic Frantage entrance.



## FOREST AND WILDLIFE MUSEUM

The Government had sanctioned for the establishment of a Forest And Wildlife Museum at Arignar Anna Zoological Park, Vandalur at a cost of Rs.20 lakhs during 2013-14. Sections of herbarium, xylarium, insectarium, portraits, soils, rocks, seeds and artifacts etc., are displayed in the museum.



## PLASTIC MIXED BITUMEN ROADS



All the loop roads and circular roads inside the zoo have been re-laid using bitumen mixed with plastic with financial assistance from Environmental Protection and Renewable Energy Development Fund, operated by Department of Environment, Government of Tamil Nadu.

## BUTTERFLY PARK

Ministry of Tourism, Government of India had sanctioned funds for the establishment of butterfly park at Arignar Anna Zoological Park, Vandalur.

Main butterfly house was constructed with provisions to house host plants and nectar plant gardens consisting of about 200 species of flowering plants, climbers, shrubs and trees over an area of 2.50 hectares inside the zoo. Climate control equipment has been installed in the main butterfly house to provide conducive atmosphere of 23° C and 85% relative humidity. Meandering walkpaths, rest sheds, water channels and service road have also been provided. At present about 20 species of native butterflies are visiting the butterfly park.



# BEST PRACTICES AT AAZP

## REFURBISHING ANIMAL HOUSES

Most of the animal houses of carnivores were constructed during 1985 required replacement due to the rusting of iron. The rusted gates and grills were causing injuries to the animals while scratching during the expression of territorial behaviour. Hence the rusted iron gates and grills were replaced with stainless steel material to ensure safety and durability as directed by the Hon'ble Chief Minister and Chair person of Zoo Authority of Tamilnadu. This is the first of its kind to be done in any zoo in the country.



## RAIN WATER HARVESTING



Entire 6 lakhs litre per day of water requirement including the requirement for three dedicated fodder banks, is being met from sources within the zoo. Extensive networking of rain water harvesting structures numbering 28 have been carried out to capture entire precipitation falling in the zoo.

## CCTV SURVEILLANCE SYSTEM

The Central Zoo Authority has provided funds for developing surveillance system in zoo as part of funding under the “*Centre For Excellence*” and all works have been completed and closed circuit cameras have been installed at ten vulnerable points to monitor free ranging animals inside the zoo, stray animals like dog, movement of feed and meat for zoo animals and other illegal trespassers. CCTV surveillance cameras are fitted in the following places inside the zoo:-

1. Ticket counter
2. Aquarium junction
3. Indian gaur junction
4. Sloth bear road junction
5. Vedanthangal birds aviary junction
6. Serpentarium
7. Veterinary Hospital road junction
8. Range No.II office
9. Pongal gate
10. Quarters gate



## IN HOUSE FODDER BANKS

Exhibiting healthy wild animals in natural surroundings is the strength of Arignar Anna Zoological Park, Vandalur. Herbivores form a major chunk of the animals exhibited in the zoo. The herbivores have to be fed with balanced and nutritious feed that include green fodder, tree leaves and concentrates. Each species of herbivore requires a balanced composition of grasses, legumes, tree fodder and concentrates. The zoo requires about 2000 kgs of green fodder for feeding the herbivores like elephant, hippo, gaur, zebra, wild ass, giraffe and varieties of deer.

In order to meet the fodder demand, the AAZP management has established two fodder banks in its premises. CO-4, CO-3, paragrass, cow pea, calapo and tree fodder are the fodder varieties that are being produced in these fodder banks. Due to scarcity of water and raising of commercial crops by the farmers, procuring fodder from outside sources becomes a challenge at times. Sometimes it's also observed that the fodder procured is not fresh and succulent. Hence it was decided to raise fodder banks for ensuring continuous supply of fodder every day to the herbivores.

Considering that the surface irrigation requires more water, more labour and time consuming with unequal spread of water, the sprinkler system with good system design and proper irrigation scheduling was installed at the fodder banks. Earlier surface irrigation was practiced in the fodder banks in Arignar Anna Zoological Park, Vandalur, Chennai. After the installation of the sprinklers, the yield has increased considerably. Nutrient recycling is implemented by composting all the leaf litter and dung material collected inside the zoo. After composting for 3 to 4 months, the material is applied to the fodder. No inorganic fertilizers are used in the fodder banks.

The zoo has become self-sufficient in its fodder production and the zoo is no more depending on the mercy of the contractors for supplying the grasses and legumes. The fresh juicy and succulent grasses with aroma now reach the all 350 herbivores within two to three hours of the cutting. By promoting sprinkler irrigation system in place of surface irrigation, the zoo saves almost 70% of the water for other purposes.

# SUCCESS STORIES

## PROMPT ACTION TO AVOID TIGERS ESCAPE

An incident of wall collapse happened in tiger moat on 14-11-2014 due to heavy rains and due to seepage of rain water. This tiger moat is one of the old structures constructed during the early period of zoo establishment. The moat wall height was about 6.5 metres and the length was 30 metres. This wall collapsed in such a manner that it formed a easy passage for the tigers to escape. There were five tigers namely Vidhyaa, Aarthi, Nethra, Uthraa and Padma in that particular enclosure at the time of this incident and there was a possibility of tiger escape through the collapsed portion of the wall. Hence it was decided to make alternative protection in place of collapsed portion before guiding the tigers into the animal cells so as to prevent the tiger escape during rescue operation.

Accordingly men and materials were moved and continuous work of cordoning of the collapsed area was taken up on war footing basis to prevent possible escape of the tigers. Works like laying of chain links, L angles, flat angles, welding equipment, grouting and concreting works, laying of solid bricks, clearing of bushes and trees, fixing of CCTV equipment, fixing of mechanical dropping gates, engaging extra casual labourers for round the clock security, emergency lighting etc. round the clock were taken up. All this work was completed in a very short span of time i.e from 14-11-2014 9 AM to 16-11-2014 6 AM. Because of the timely action of sealing of the collapsed portion, a major catastrophe in the form of escape of five tigers in the zoo was prevented and all the five tigers were safely guided and confined to their secured animal houses.

The speed and quantum of this operation was carried out in such a way that zoo visitors and neighbouring villagers were not panicked or affected. The zoo traffic had continued as usual without any dent in the number of footfalls. The tiger moat after this incident had become risky. So arrangements were made to show the tigers through CCTV in display area where visitors earlier used to see them. In order to gain the confidence to the public, video clips of the tigers that were on safe custody was circulated to the media. A special paddock type structure with chain link was erected subsequently in a portion of the enclosure to exhibit the tigers to the public.

An elusive tigress Vidhyaa, named by Hon'ble Chief Minister of Tamil Nadu is one of the five tigresses which have acquired wild nature when compared to her other zoo born siblings. It is a healthy and desirable character for any zoo born animal to acquire wild nature. However public and media mistook her elusiveness for a possible escape. Tigress Vidhyaa is healthy and very clever animal and the zoo had to employ equally clever strategy to drive her to the safety without using any chemical immobilization. And this was also done successfully by the AAZP management.



**COLLAPSED WALL OF THE  
TIGER ENCLOSURE**



**TIGRESS VIDHYAA**



**SECURING THE COLLAPSED  
STRUCTURE WITH  
TEMPORARY CHAIN LINKS**



## GENETIC UPGRADATION OF WHITE TIGER

Tigers are at the apex of the food pyramids and serve as umbrella species for the entire eco-system. While *in-situ* conservation of endangered species is in the protocol of the Protected Areas, Zoological Parks are mandated to complement and strengthen the national efforts in conservation of endangered species. Zoological parks provide with facilities like co-ordinated breeding and raise stocks for rehabilitating them in wild as and when it is appropriate and desirable.

Arignar Anna Zoological Park has 15 number of normal coloured tigers and 12 number of white tigers. The white tigers are neither sub-species nor albinos. Both normal coloured and white tigers belongs to Royal Bengal tiger species. However, white tigers suffer from certain genetical disorders added to their low immunity levels. To save the population collapse of white tigers, Arignar Anna Zoological Park has embarked on the initiative of improving the vitality in the genetic profile of the white tigers by purifying tiger lineages by practicing out-crossing of white tigers to unrelated normal tigers for fitness recovery of the Tiger species.

Arignar Anna Zoological Park has a potential male normal coloured tiger. It was decided to out-cross the male with the captive born white tigresses. Out-crossing the normal coloured male tiger with female white tigress results in heterozygous normal coloured  $F_1$  offsprings. The first attempt was made in 2012 which resulted in the birth of three heterozygous tiger cubs. First time in the history of Arignar Anna Zoological Park, Vandalur, such feat was achieved. These cubs were named by the then Hon'ble Chief Minister as 'Vidhya', 'Arthi' and 'Nethra' on 15.05.2013. Following this out-crossing of tigers the following tiger births were recorded at AAZP,

- Two normal coloured cubs were born on 23.03.2014 and these cubs were named by the then Hon'ble Chief Minister as 'Karnaa' and 'Aadhithyaa'.
- Four heterozygous tiger cubs have born in AAZP. These cubs were named by Hon'ble Chief Minister as 'Anitha', 'Preetha', 'Suneetha' and 'Sangeetha' on 17.06.2015.
- Four more heterozygous tiger cubs have born on 16.10.2015 and named by Hon'ble Chief Minister as Nakula, Deva, Mala and Kala.

By adopting this innovative strategy, the zoo has now 13 genetically superior heterozygous normal coloured tiger cubs which would prevent the decades of incestuous breeding of white tigers that resulted in sterility, shortened lifespan, vision abnormalities, weakened immunity, poor lactation etc.,



# DISASTER MANAGEMENT

## FLOOD MANAGEMENT

The fencing wall to the total length of 400 meters in 12 places had collapsed due to unprecedented and incessant rains in November - December 2015. All these 12 places in both southern and northern parts were temporarily barricaded with chain link fence to prevent the escape of free ranging animals especially about 700 spotted deer that are present in the Vandalur RF. Workers were placed at the fragile spots to prevent the movement of animals through these gaps. Because of the immediate action, no animal has escaped from the zoo through these collapsed walls. The reconstruction of fencing wall was taken up immediately and completed within a period of 10-15 days.



## CYCLONE MANAGEMENT - “VARDAH” CYCLONE

“Vardah” Cyclone hit Chennai on 12.12.2016 and it had caused severe damages to the civic amenities and animal enclosures of Arignar Anna Zoological Park, Vandalur. The following is the account of major damages reported,

- Thousands of trees got uprooted and blocked the movement of feed and other supply to the animals.
- The fallen trees have caused severe damages to roads, buildings, boundary walls, animal enclosures, public amenities, drainage, electricity supply network and water supply network.
- About 950 meter length of periphery compound wall had collapsed at several places in Arignar Anna Zoological Park, Vandalur.

Precautionary measures were taken to drive all the animals to their night shelter even before the severity of cyclone commenced. This timely measure of the zoo management ensured the animal safety and avoided any animal causality. However less number of causality was reported w.r.t exotic birds due to shock.

Normalcy was restored after one day with respect to supply of feed and water. Arignar Anna Zoological Park was declared closed for public visit until further notice so as to carry out the restoration works.

### Visit of Officials to inspect “Cyclone Vardah” damages at AAZP

S.No	Designation of the Official visit	Date of Visit
1	Principal Chief Conservator of Forests (HOFF) and Principal Chief Conservator of Forests & Chief Wildlife Warden	13.12.2016
2	Hon’ble Chief Minister of Tamil Nadu & Forest Minister	14.12.2016
3	Central Team ,New Delhi	23.12.2016
4.	Member Secretary, Central Zoo Authority, New Delhi	11.02.2017

The immediate restoration operations were undertaken by the Zoo management. Restoration works were carried out on war footing basis. In order to restore the lost tree cover, plantation of seedlings is also been carried out. AAZP was reopened on

10.02.2017 after ensuring that the basic amenities to the visitors were repaired and clear visibility of animals exhibited in the enclosures was made possible.

### **List of Works carried out at AAZP after Cyclone Vardah during 2016-17**

S. No	Name of the work
1	For repairs and renovation of damaged birds cages and shed
2	For repairs and renovation of damaged barricade and chain link fencing
3	Restoration of damages caused to Additional White Tiger enclosure
4	Restoration of cyclone damages at moat wall at Nilgiri langur enclosure
5	Restoration of cyclone damages at Lion safari periphery wall
6	Reconstruction of damaged shed and shelters in animal enclosures
7	Relaying of damaged barricades and fencing at animal enclosures
8	Reconstruction of damaged moat wall at Zebra, Wild boar, Hippo, Crocodiles and Sambar deer animal enclosures
9	Reconstruction of damaged Visitors shed, Rest sheds , vehicle shed
10	Relaying of damaged barricades
11	Relaying of damaged street light at zoo area
12	Repairs and renovation of damaged toilet blocks in the zoo area
13	Repairs and replacement of damaged Sintex and sheds at zoo area water supply point
14	For strengthening the moat wall at Marsh crocodile enclosure
15	Restoration of cyclone damages at Flightless birds enclosure periphery fencing and wall
16	Restoration of cyclone damages at car parking, dining place, roofs and boards

# VARDAH CYCLONE DAMAGE



# RESTORATION WORKS

## ZOO SCHOOL & CLUB ACTIVITIES

A notable achievement of the AAZP management is the formation of the Zoo School. It aims at conducting education awareness classes on regular basis to the students.

- During the year 2016-2017 the park had conducted - Zoo outreach programmes for 4 schools in which 865 students have participated.
- In Zoo school programmes, the park had conducted 175 programmes in which 18335 Students have participated.
- The zoo school programmes are now attracting several schools, which wish to enroll for the programmes on regular basis.

The zoo club was started in 19.09.1998 with the objective of encouraging voluntaries service for the improvement and development of zoo. Every volunteer has been provided with ID card and cap. The voluntaries have been regularly rendering service in their holidays and weekends. The volunteers assigned the work of screening plastic from the visitors, educating and guiding the public, prevention of teasing and feeding the animals.



## WILDLIFE TRAINING CONDUCTED AT AAZP

S.No	Name of the College/Institute	No. of trainees/Students	Date
1	Central Academy for State Forest Service, Burnihat, Assam	40	21.01.2017
2	P.G.Diploma course in Advanced Wildlife Management, Wildlife Institute of India, Dehra Dun	20	22.02.2017
3	Forest college, Coimbatore	45	29.07.2016
4.	Dr.Ambedkar Law college, Chennai	60	08.09.2017
5	Smithsonian National Zoological Park, Front Royals, USA,	4	20.06.2016 21.06.2016
6	P.G. students of Wild life Biology, A.V.C College, Mayiladuthurai	25	28.09.2016
7	Forest College Students ,Coimbatore	40	13.10.2016
8	Forest Ranger trainees, Gujarat	35	11.11.2016
9	I.F.S Officer Trainees ,Dehradun	33	26.11.2016

## IN-HOUSE TRAINING TO KEEPERS OF AAZP

In order to update and increase the skills of the keepers working in Arignar Anna Zoological Park, they were provided with in-house training from 4.30 pm to 5.30 pm every day except Tuesdays. A group of 10 people in all ranges put together organized training program and exposed to different topics every day. To cover whole keepers in each topic 4 weeks were utilized. Similarly to cover 4 topics 16 weeks have been utilized from 1<sup>st</sup> October'2016 to February' 2017.They have been exposed to importance of Enclosure enrichment in Animal enclosures, Zoo animal nutrition, Record keeping and Animal reproduction. This training programme helped to boost their morale and performance of day to day activities and also laid a platform to appreciate by them for their works.

## INTERNSHIP TRAINING CONDUCTED FOR COLLEGE STUDENTS

S.No	Name of the student &College	Project on	Duration
1	Dr.Ambedkar Government Law college, Chennai 60 students	Orientation programme	26.08.2016
2	5 Staff from GEER Foundation ,Indroda National Park ,Gandhinagar, Gujarat	Exposure visit of staff on Indroda National Park, Gandhinagar, Gujarat	15 <sup>th</sup> Nov -17 <sup>th</sup> Nov 3 day
3	Pavithra Prahar,School of Arch.	Holistic barrier free Zoological Park	18.04.16 to 22.04.16
4.	X.Rosalind glory, Madras Christian College, Tambaram	Internship training interation on animal behavior & wildlife conservation	15 days (1.5.16 to 15.5.16)
5	Dr. Muthusamy, B.Vsc.	Internship training with zoo veterenarians.	5.4.16 to 8.4.16
6	MS. Beulah Alexander B.sc Zoology, Women's Christian College	On -Job-training program on Animal behavior of monkey elephants, Aves	28.4.16 to 20.5.17
7	Haripriya Msc Ist year	Internship training	1.7.16 to 10.7.16

## TRAININGS ATTENDED BY AAZP STAFFS

S.No	Name of the Staff	Name of Workshop or Training or Inspection	Duration
1	Dr.A.Manimozhi Biologist	Given lecture and handsome training on record keeping and marking of the animals in captivity to the keeper's of south Indian zoos held at zoological garden, Thiruvananthapuram	(18-12-16 to 19.12.16) 2 days
2	Dr.A.Manimozhi Biologist	As per the Central Zoo Authority(CZA) instruction visited deer park, Tirupathi and crocodile park, Amaravathi to find out factual status of unauthorized facilities and report submitted	11.07.16 to 13.07.2016
3	Dr.A.Manimozhi Biologist	Attended conference on development of roadmap for Indian zoo held at Assam state zoo , Guwahati conducted by CZA, New Delhi	24.05.2016 to 26.05.2016
4	Amith Asthana (I.F.S.),APCCF and Director	Identification and marking of animals in captivity held at Massi Deer park Deheradun Conducted by CZA, New Delhi.	27.02.17 to 02.03 2017
5	Dr.A.Manimozhi Biologist	Deputed to DFO office, Kanyakumari to prepare a Detailed project report (DPR) on Conservation and Breeding of Endemic and Endangered species of South Western Ghats and Bio park at Udayagiri, Kanyakumari (Dt).	20.02.2017 to 25.02.2017
6	Dr.AManimozhi, Dr.M.Sekar G.Kamarai	Conducted in house training to all Zoo keepers of Arignar Anna Zoological Park, Vandalur on "Enclosure enrichment, Duties and responsibilities of keepers and Nutrition & animal reproduction	01.10.2016 to 10.02.2017
7	Dr.AManimozhi, Dr.M.Sekar G.Kamarai	Attended training on ZIMS held at Arignar Anna Zoological Park, Vandalur conducted by CZA	20.10.2016 to 23.10.2016

## POSTINGS AND TRANSFERS

Sl.No	Name	Designation	Date of joining/Relieved	Remarks
1	M.Ravichandiran	Assistant	20.05.2016	Transferred from Pudukotai
2	Selvi B.Sundaravalli	Assistant	08.07.2016	Transferred from KMTR
3.	K.S.S.P.Reddy,I.F.S.,	Addl.PCCF& Director	29.07.2016	Promoted as Principal Chief Conservator of Forests and transferred to PCCF office, Saidapet
4	P.K.Dileep,I.F.S.,	Deputy Director	18.08.2016	Transferred to Gudalur
5.	M.Dhananchezhian	Draughting officer	18.08.2016	Transferred to S.F Division, Kanchipuram
6	S.Shanmugam	Assistant Conservator of Forests	19.09.2016	Transferred from Erode Division on Promotion
7.	M.Muraleedharan	Personal Assistant	30.09.2016	Transferred from Pollachi on Promotion
8.	B.Uma	Forest Range Officer	25.10.2016	Direct Recruitment
9.	G.Prasad	Forest Range Officer	25.10.2016	Direct Recruitment
10.	K.Murali	Draughting officer	06.10.2016	Transferred from Wildlife warden office, Nagapattinam on Promotion
11.	Banumathi	Office Assistant	13.02.2017	Compassionate appointment
12	K.Sivakumar	Forester	06.03.2017	Transferred from Kanchipuram Division

## RETIREMENT DETAILS

Sl.No	Name	Designation	Date of retirement
1.	P.M.Maniyapillai	Security Watchman	31.03.2016
2	M.MUrugan	Pump Operator	31.03.2016
3.	B.Samboornam	Sweeper cum Scavenger	30.06.2016
4.	Thirunavukarasu	Sweeper cum Scavenger	30.06.2016
5.	N.Dhakshinamoorthi	Animal Keeper	31.07.2016
6..	M.Mohan	Animal Keeper	31.08.2016
7.	M.Poopathi	Forest Guard	30.09.2016
8.	V.Sankari	Mali	28.02.2017
9.	T.Dorai	Forest Guard	28.02.2017
10.	M.Rani	Forest Guard	28.02.2017

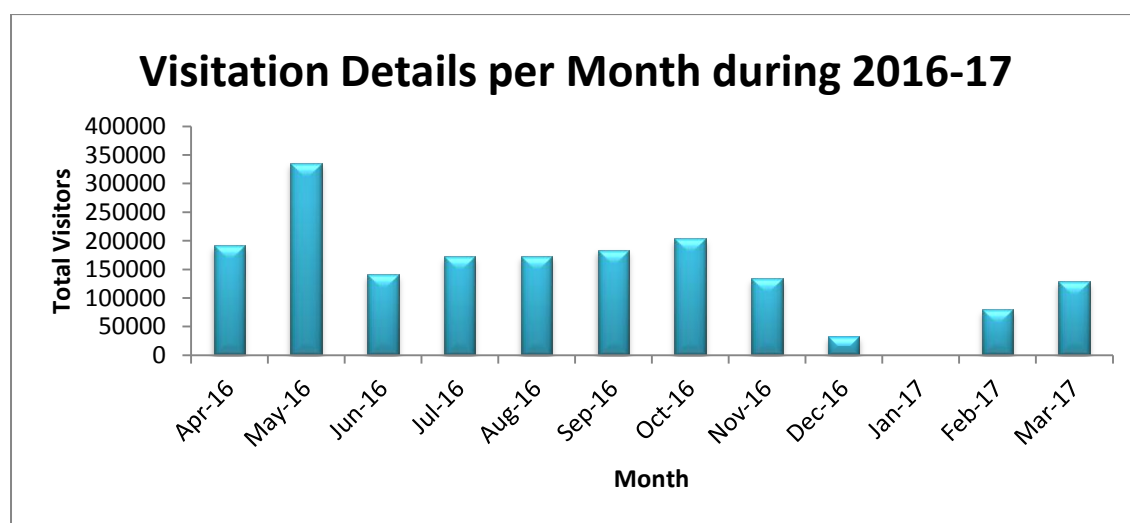
## STAFF DEATH

Sl.No	Name	Designation	Date of death
1.	M.Narayanasamy	Night Watchman	20.08.2016
2.	S.Muthu	Night Watchman	08.10.2016
3.	R.Sivakumar	Entrance Gate Watchman	19.02.2017

## VISITOR DETAILS

The zoo receives visitors all the year round, the numbers of visitors is more on Saturdays, Sundays and festival days. The visitation is maximum in January and May of every year. The zoo is opened to the public from 9.00 AM to 5.00 PM in all days except Tuesday.

Months	Adult	Child	Foreigners	Total
Apr-16	148078	43733	297	192262
May-16	248766	86757	315	335838
Jun-16	121508	18646	277	140431
Jul-16	148624	23649	272	172545
Aug-16	146330	26870	270	173524
Sep-16	153763	30230	291	184284
Oct-16	169330	34539	275	204144
Nov-16	113707	20878	273	134858
Dec-16	28699	3683	51	32433
Jan-17	Zoo remained closed due to Vardah Cyclone from 12.12.2016 to 10.2.2017			
Feb-17	67742	12528	154	80427
Mar-17	106760	13678	197	128755
<b>Total</b>	<b>1453307</b>	<b>315191</b>	<b>2675</b>	<b>1779501</b>



# VETERINARY SECTION

## VETERINARY CARE

The Veterinary team at AAZP includes one Veterinary Officer, Two Veterinary Assistant Surgeons (Deputation From TN Animal husbandry Department), One Lab assistant, and Two assistants. The Veterinary Team takes rounds everyday in the Morning to all enclosures in the Zoo, to assess the health of Zoo animals, birds, reptiles and related issues like Hygiene. Depending on the severity of the sickness, the animals will be either isolated and shifted to in-patient ward or kept in the animal house for further care, monitoring and treatment. The major ailments among zoo animals were due to senility, infighting, digestive tract ailments. The fully equipped Zoo hospital with lab facilities is available at AAZP. Spacious Quarantine unit to accommodate newly acquired animals and sick animals suspected for contagious diseases is also available.

## FEED INSPECTION

Veterinary Doctors formulate the Diet chart of zoo animals depending on the physiological and Climatic needs. Periodical feed enrichments, feed supplements and feed additives were prescribed to augment dietary deficiency, if any. Veterinary Doctors inspect the feed for the Requisite Quality and Quantity, at the point of receipt and monitor the operation of Division of feeds fit for animal consumption, Enclosure wise.

## COLLABORATION WITH MADRAS VETERINARY COLLEGE (TANUVAS)

- Periodical Feed sample evaluation is done by Pharmaco vigilance laboratory for feed analysis and safety, Madhavaram.
- Internees of UG course were trained in AAZP, for a week in Zoo animal Restraint, Handling and veterinary care. 147 students of Madras veterinary college and Veterinary college, Namakkal, were trained in 2016-17.
- 20 Veterinary assistant surgeons of Wild animal Conflict prone Districts of Tamilnadu, were trained in Necropsy techniques in wild animals, in collaboration with Department of Veterinary pathology in 2016-17.

## PROPHYLAXIS

- Prophylactic Deworming of all mammals, birds and Reptiles were done every 3 month (April, July, October, January).
- Lions, Royal bengal Tigers, White Tigers , Leopards, and small felids were vaccinated against Feline panleucopenia, feline calcivirus, and feline rhinotracheitis virus and Rabies Virus on annual basis.
- Triquin Prophylaxis is administered to all Lions, Tigers, Leopards, Wolf, jackal,hyaena and Wildogs on Quarterly basis.
- Wolf, Striped Hyaena, Jackal were vaccinated with Canine DHLPPi and rabies virus on annual basis.
- The bovines which includes Gaurs and Nilgai were vaccinated against FMD, Black quarter and Haemorrhagic septicaemia.
- Elephants were vaccinated against Hemorrhagic septicaemia Tetanus Toxoid and Anthrax.
- Annual ring vaccination around the Zoo boundary Villages were done against, FMD,Black quarters, Haemorrhagic Septicaemia and Anthrax by state animal Husbandry Department before Northeast Monsoon.
- Ectoparasiticial (Deltamethrin, Cypermethrin)spraying and Animal house disinfection with Flame Gun in all carnivore enclosures on monthly basis.

## BIRD FLU SURVEILLANCE AND PREVENTIVE MEASURES

Bird Flu Surveillance and preventive measures were carried in the month of November, December, January as National wide alert was received from Animal husbandry Department, GOI. Anti viral Disinfection of Major species that are at risk of avian influenza were done enclosure wise, every week and surveillance report were sent to GOI.

## SPECIAL VETENARY CARE DURING CYCLONE

**Cyclone Vardah** devastated the Zoo on 12.12.2017. Mortality were recorded in Caged birds and Tortoise Enclosure. Operations were carried round the clock to monitor healthcare issues. The feed distribution channels were created to feed the animals, the very next day. Large scale disinfection of water source and storage units was done. Prophylactic antibiotics and anti Stressor medications were given to all zoo animals and veterinary team was vigilant for any new outbreak of diseases.

## **SALIENT SURGERIES IN 2016-2017**

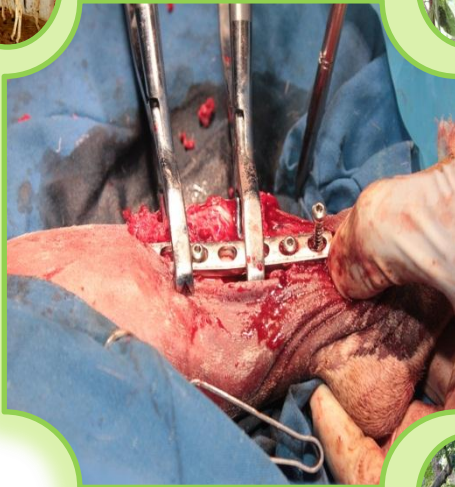
- Treatment of Snare injury in Sub adult Leopard, Male, 18 months old, rescued from ooty.
- Surgical management of Persistent Urachus, Omphalitis in Neonatal Wild ass Foal.
- Evisceration of Eye in Jaguar, male, 15 years old, with Chronic Bilateral Glaucoma and Cataract.
- Surgical management of complete fracture in Left tarso-metatarsal bone by external Splint Fixation in Sarus Crane.
- Surgical management of Chronic caecal impaction , in Indian Vulture.
- Surgical management of Extensive lacerated wound in pelvic region, Female sloth bear.
- Fore limb amputation at Elbow joint in sambar deer, female.
- Surgical management of multiple cervical tumor in reticulated Python.
- Surgical management of retained spectacle in reticulated python.
- Surgical management of lacerated wound in temporal, frontal region in Lion tailed macaque, male.
- Hoof trimming of over grown hoof and surgical management of knuckling of fetlock joint in Grant`s Zebra, female.
- Management of Spraddled leg deformity in Rhea chick.

## **HAND REARING OF RESCUED ANIMALS**

- 1Nos - Orphan Elephant calf , female, 6 month old rescued from Sathyamangal
- 2 Nos - One week old Bonnet macaque babies from Kanchipuram District.
- 4-Nos - Month old orphan Spotted deer fawn from Thiruporur, GNP, Vandalur
- 1Nos - Blackbuck fawn from GNP, chennai.
- 1Nos - Slender lori from GNP, Chennai.
- 2Nos - Palm civet cat youngone from Vandalur.
- 155 Nos - Alexandrine parakeets rescued by wildlife squad, HQ, chennai.
- 35Nos - Rose ringed parakeets rescued by wildlife squad, HQ, chennai.
- 45 Nos - Star tortoises rescued by wildlife squad, HQ, chennai

## ABSTRACT OF VETERINARY ACTIVITIES OF THE ZOO (2016-2017)

S. No	Activities	Number of cases dealt
1	Cases treated	1455
2	Surgery performed	45
3	Deworming	5506
4	Chemical Immobilizations	67
5	Screening of Blood samples	111
6	Biochemical assay	17
7	Bacteriological examination	153
8	Faecal sample examination	1917



## DEATH DETAILS OF ANIMALS BETWEEN 01-04-2016 TO 31-03-2017 AT AAZP

### MAMMALS

Sl. No.	Name of the species	Scientific Name	Date of Death	Sex	Cause of Death
1	Indian Gaur	<i>Bos gaurus</i>	04.04.2016	0:1	Traumatic injury due to infighting
2	Swamp deer	<i>Cervus duvauceli</i>	04.04.2016	0:1	Hypovolemic shock
3	Indian civet cat	<i>Viverricula indica</i> )	18.04.2016	1:0	Pneumonia
4	Barking deer	<i>Muntiacus muntjack</i>	12.05.2016	0:1	Predator bite
5	Wild dog	<i>Cuon alpinus</i>	23.05.2016	1:1	Babesiosis
6	Sambar	<i>Rusa unicolor</i>	25.05.2016	1:0	Infighting & shock
7	Jackal	<i>Cans aureus</i>	06.06.2016	0:1	Shock
8	Indian Gaur	<i>Bos gaurus</i>	18.06.2016	1:1	Infighting & shock
9	Sloth bear	<i>Melursus ursinus</i>	03.07.2016	1:0	Chronic pneumonia
10	Jackal	<i>Cans aureus</i>	28.07.2016	0:1	Fits
11	Brown Capuchin	<i>Cebus apella</i>	26.08.2016	1:0	Multiple organ failure
12	Blackbuck	<i>Antilope cervicapra</i>	12.09.2016	0:1	Encephalitis
13	Jackal	<i>Cans aureus</i>	14.09.2016	0:2	
14	Hog deer	<i>Axis porcinus</i>	14.09.2016	0:1	Capture myopathy
15	Hog deer	<i>Axis porcinus</i>	14.09.2016	0:1	Capture myopathy
16	Nilgiri langur	<i>Semnopithecus johni</i> )	16.09.2016	1:0	Pneumonia(infant)
17	Lion tailed macaque	<i>Macaca silenus</i>	19.10.2016	0:1	Drowning & Aspiration
18	Mongoose	<i>Herpestes edwardsii</i>	09.11.2016	1:0	Nephritis
19	Hyaena	<i>Hyaena hyaena</i>	12.11.2016	0:1	Multiple organ failure
20	Sambar	<i>Rusa unicolor</i>	05.12.2016	1:0	Shock

21	Sambar	<i>Rusa unicolor</i>	12.12.2016	0:3	Trauma & Shock (Cyclone)
22	Hog deer	<i>Axis porcinus</i>	05.01.2017	0:1	Septicemia
23	Sambar	<i>Rusa unicolor</i>	16.02.2017	1:0	Hemorrhagic shock
24	Leopard	<i>Panthera pardus</i>	20.02.2017	1:0	Senility
25	Leopard	<i>Panthera pardus</i>	23.02.2017	1:0	Toxic impaction
26	Zebra	<i>Equus burchelli bohem</i>	04.03.2017	0:1	Bronchitis
27	Wild boar	<i>Sus scrofa</i>	24.03.2017	0:1	Infighting
28	Bonnet macaque	<i>Macaca radiata</i>	26.03.2017	0:1	Heart failure

## BIRDS

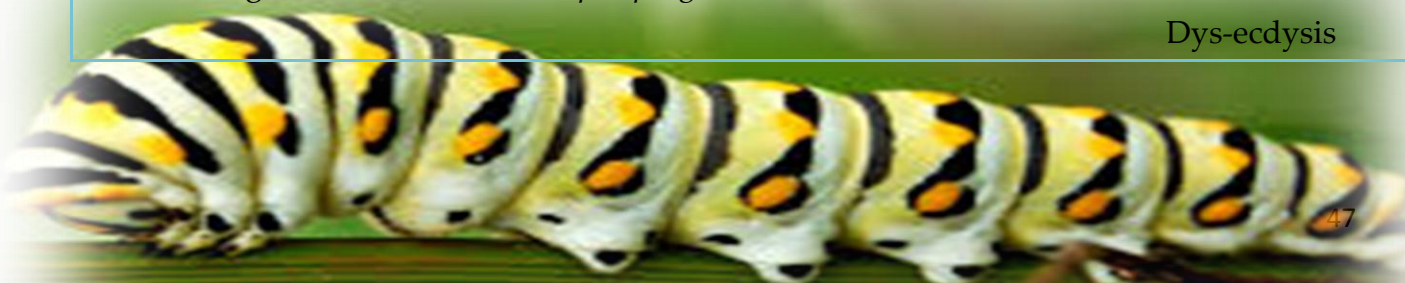
Sl. No.	Name of the species	Scientific Name	Date of Death	Sex	Cause of Death
1	Alexandrian Parakeet	<i>Psittacula eupatria</i>	05.04.2016	1:0	Shock
2	Alexandrian Parakeet	<i>Psittacula eupatria</i>	05.04.2016	0:1	Shock
3	Silver diamond dove	<i>Geopelia cuneata</i>	12.04.2016	0:1	Shock
4	Silver diamond dove	<i>Geopelia cuneata</i>	15.04.2016	1:0	Shock
5	Alexandrian Parakeet	<i>Psittacula eupatria</i>	20.05.2016	2:0	Shock
6	Alexandrian Parakeet	<i>Psittacula eupatria</i>	20.05.2016	2:1	Shock
7	Java sparrow	<i>Lonchura oryzivora</i>	29.05.2016	1:0	Dehydration
8	Silver diamond dove	<i>Geopelia cuneata</i>	30.05.2016	0:1	Shock
9	Monk Parakeet	<i>Myiopsitta onachus</i>	15.06.2016	0:1	Infighting
10	Silver diamond dove	<i>Geopelia cuneata</i>	20.06.2016	1:0	Shock
11	Kaleej Pheasant	<i>Lophura leucomelanos</i>	29.06.2016	1:0	Nephritis

12	Emu	<i>Dromaius novaehollandiae</i>	27.07.2016	0:1	Infighting
13	Black swan	<i>Cygnus atratus</i>	05.09.2016	0:1	Gout
14	Silver diamond dove	<i>Geopelia cuneata</i>	08,09.2016	1:0	Predator bite
15	Alexandrian Parakeet	<i>Psittacula eupatria</i>	11.09.2016	1:0	Infighting
16	Silver diamond dove	<i>Geopelia cuneata</i>	14,09.2016	1:1	Infighting
17	Collared dove	<i>Streptopelia tranquebarica</i>	28.09.2016	1:0	Predator bite
18	Plum headed parakeet	<i>Psittacula cyanocephal</i>	29.09.2016	1:0	Predator bite
19	Plum headed parakeet	<i>Psittacula cyanocephal</i>	29.09.2016	0:1	Predator bite
20	Malabar Parakeet	<i>Psittacula columboides</i>	03.09.2016	0:1	Hemorrhagic shock
21	Java sparrow	<i>Lonchura oryzivora</i>	25.09.2016	1:0	Enteritis
22	Rhea	<i>Rhea americana</i>	22.10.2016	0:1	Osteomalacia
23	Glissy Ibis	<i>Anhinga melanogaste</i>	22.11.2016	1:1	Pneumonia
24	White peafowl	<i>Pavo cristatus</i>	11.12.2016	1:0	Pneumonia
25	Golden Pheasant	<i>Chrysololphus pictus</i>	12.12.2016	0:1	Physical trauma & Shock (Cyclone)
26	Kaleej pheasant	<i>Lophura leucomelanos</i>	12.12.2016	0:1	Physical trauma & Shock (Cyclone)
27	Indian peafowl	<i>Pavo cristatus</i>	12.12.2016	0:1	Physical trauma & Shock (Cyclone)
28	Peach faced love birds	<i>Agapornis roseicollis</i>	12.12.2016	1:2	Physical trauma & Shock (Cyclone)
29	Fishers love bird	<i>Agapornis fischeri</i>	12.12.2016	2:1	Physical trauma & Shock (Cyclone)
30	African grey Parrot	<i>Psitacus erithacus</i>	28.12.2016	1:0	Physical trauma & Shock (Cyclone)
31	Emu	<i>Dromaius</i>	31.12.2016	0:1	Hemorrhagic

		<i>novaehollandiae</i>			shock
32	Rainbow lorikeet	<i>Trichoglossus haematodus</i>	03.03.2017	0:1	Shock
33	Sarus crane	<i>Gyrus antigone</i>	09.03.2017	1:0	Multiple fracture on leg

## REPTILES

Sl. No.	Name of the species	Scientific Name	Date of Death	Sex	Cause of Death
1	Reticulated python	<i>Python reticulatus</i>	22.07.2016	0:1	Septicemia
2	King cobra	<i>Ophiophagus hanna</i>	18.08.2016	1:0	Dys-ecdysis
3	Indian rock python	<i>Python molurus molrus</i>	01.10.2016 to 17.10.2016	0:0:18	Juvenile mortality
4	Reticulated Python	<i>Python reticulatus</i>	03.10.2016	0:0:1	Infighting
5	Reticulated Python	<i>Python reticulatus</i>	07.11.2016	0:0:1	Enteritis
6	Common monitor lizard	<i>Varanus bengalensis</i>	21.11.2016	1:0	Hepatitis
7	Russell's viper	<i>Vipera russelli</i>	30.11.2016	0:0:3	Pneumonia
8	Indian rock python	<i>Python molurus molrus</i>	09.12.2016	0:0:1	Catabolism
9	Common monitor lizard	<i>Varanus bengalensis</i>	09.12.2016	0:0:1	Pneumonia
10	Star tortoises	<i>Geochelone elegans</i>	15.12.2016	0:5	Septicemia & drowning
11	Indian rock python	<i>Python molurus molrus</i>	18.01.2016	1:0	Nodular Hepatitis
12	King cobra	<i>Ophiophagus hanna</i>	15.02.2017	1:0	Anorexia & Dys-ecdysis



## BIRTH DETAILS OF THE ANIMALS DURING 2016-17 AT AAZP

Sl. No	Name of the species	Scientific name	Date	Sex	
1	Swamp deer	<i>Cervus duvauceli</i>	25.06.2016	0:0:1	
2	Wild Ass	<i>Equus heminous khur</i>	26.06.2016	0:1	
3	Lion tailed macaque	<i>Macaca silenus</i>	08.07.2016	0:0:1	
4	Blackbuck	<i>Antilope cervicapra</i>	11.07.2016	0:1	
5	Blackbuck	<i>Antilope cervicapra</i>	15.08.2016	0:1	
6	Indian gaur	<i>Bos gaurus</i>	17.09.2016	0:1	
7	Wild boar	<i>Sus scrofa</i>	07.10.2016	0:0:4	
8	Blackbuck	<i>Antilope cervicapra</i>	10.10.2016	0:0:1	
9	Blackbuck	<i>Antilope cervicapra</i>	09.11.2016	0:0:1	
10	Indian gaur	<i>Bos gaurus</i>	07.12.2016	0:1	
11	Nilgiri langur	<i>Semnopithecus johni</i>	15.12.2016	0:0:1	
12	Indian gaur	<i>Bos gaurus</i>	21.12.2016	0:1	
13	Rhesus macaque	<i>Macaca mullata</i>	31.12.2017	0:0:4	
14	Indian gaur	<i>Bos gaurus</i>	12.02.2017	0:1	
15	Lion	<i>Panthera leo</i>	05.02.2017	1:0	
16	Indian gaur	<i>Bos gaurus</i>	12.02.2017	0:1	
17	Indian gaur	<i>Bos gaurus</i>	23.02.2017	1:0	
<b>BIRD</b>	18	African Grey Parrot	<i>Psitacus erithacus</i>	25.12.2016	0:0:2
<b>Reptiles</b>	19	Red eared Slider	<i>Chrysemys scripta elegans</i>	05.05.2016	0:0:5
	20	Indian Spotted turtle	<i>Melanochelys trijuga</i>	7.05.2016	0:0:5
	21	Reticulated python	<i>Python reticulatus</i>	08.06.2016	0:0:20
	22	Indian Rock Python	<i>Python molurus</i>	23.06.2016	0:0:36



## ACQUISITION DETAILS OF THE ANIMALS DURING 2016-17 AT AAZP

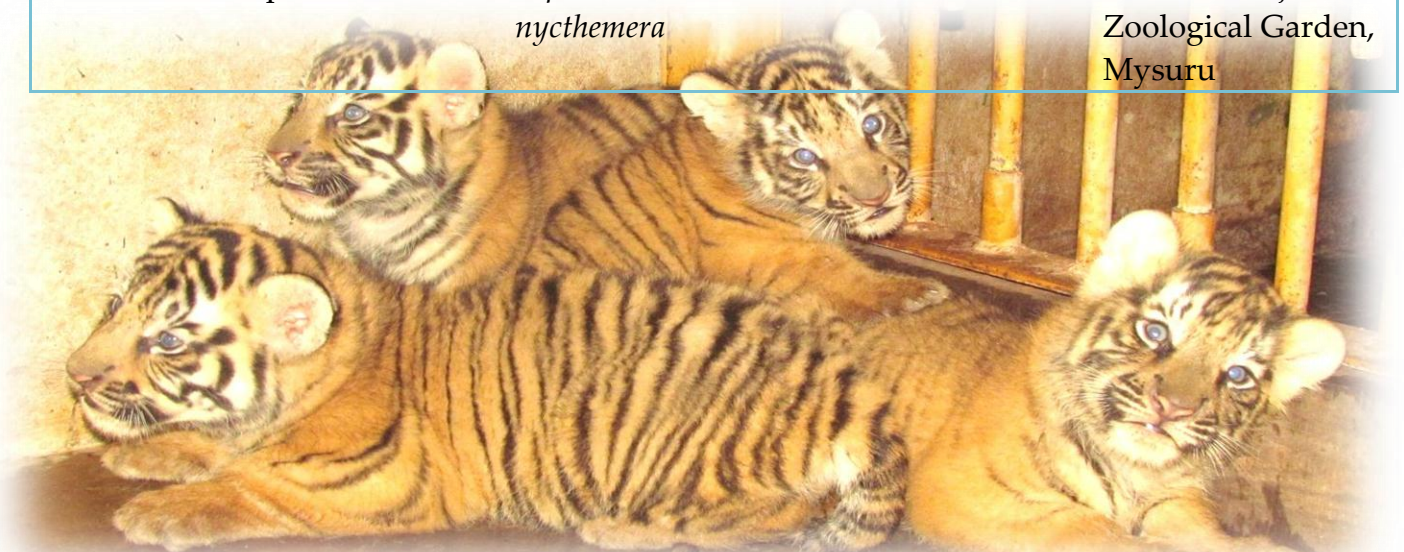
### MAMMALS

Sl. No	Name of the species	Scientific Name	Date	Sex	Place
1	Elephant calf	<i>Elephas maximus</i>	14.05.2016	0:1	Rescued from Gudalur, Ooty
2	Indian Wolf	<i>Canis lupus</i>	01.07.2016	1:0	Sri Chamarajendra Zoological Garden, Mysuru
3	Indian Wolf	<i>Canis lupus</i>	23.09.2016	0:2	Sajjangarh Biological Park, Udaipur
4	Hog deer	<i>Axis porcinus</i>	10.09.2016	3:3	Thiruvananthapuram zoo
5	Grizzled giant squirrel	<i>Ratufa macrura</i>	11.02.2016	2:1	Confiscated
6	Indian giant squirrel	<i>Ratufa indica</i>	00.03.2016	0:1	Confiscated
7	Nilgai	<i>Boselaphus tragocamelus</i>	01.03.2017	2:3	Sri Chamarajendra Zoological Garden, Mysuru

### BIRDS

Sl. No	Name of the species	Scientific Name	Date	Sex	Place
1	Open bill stork	<i>Anastomus oscitans</i>	25.05.2015	0:0:1	Rescued from Vedanthangal
2	Glossy ibis	<i>Pelecanus philippensis</i>	25.05.2015	0:0:5	Rescued from Vedanthangal
3	Grey pelican	<i>Pelecanus philippensis</i>	25.05.2015	0:0:15	Rescued from Vedanthangal
4	Darter	<i>Anhinga</i>	25.05.2015	0:0:4	Rescued from

		<i>melanogaster</i>			Vedanthangal
5	Caucal	<i>Centropus sinensis</i>	01.06.2016	0:0:1	Rescued
6	Malabar parakeet	<i>Psittacula columboide</i>	31.08.2016	1:1	Gemini Birds Farm, Padappai
7	Blossom headed Parakeet	<i>Psittacula cyanocephal</i>	31.08.2016	1:1	Gemini Birds Farm ,Padappai
8	Red breasted Parakeet	<i>Psittacula alexandri</i>	31.08.2016	1:1	Gemini Birds Farm ,Padappai
9	Alexandrine parakeet	<i>Psittacula eupatria)</i>	31.08.2016	0:0:8	Gemini Birds Farm ,Padappai
10	Collared dove	<i>Streptopelia tranquebarica</i>	31.08.2016	2:1	Gemini Birds Farm Padappai
11	Peafowl normal	<i>Pavo cristatus</i>	01.09.2016	3:13	Gemini Birds Farm ,Padappai
12	Peafowl white	<i>Pavo cristatus</i>	01.09.2016	4:9	Gemini Birds Farm, Padappai
13	Rheas	<i>Rhea americana</i>	10.09.2016	2:2	Thiruvananthapura m zoo
14	Blue and yellow macaw	<i>Ara ararauna</i>	11.10.2016	0:0:1	Rescued from Blue Cross, Chennai
15	Ring necked pheasant	<i>Phasianus colchicus</i>	01.03.2017	1:1	Sri Chamarajendra Zoological Garden, Mysuru
16	Silver pheasant	<i>Lophura nycthemera</i>	01.03.2017	0:2	Sri Chamarajendra Zoological Garden, Mysuru



## DISPOSAL DETAILS OF ANIMALS DURING 2016-17 AT AAZP

### MAMMALS

Sl. No	Name of the species	Scientific Name	Date	Sex	Place
1	White tiger	<i>Panthera tigris tigris</i>	25.09.2016	1:0	Sajjangerh Biological Park, Udaipur
2	Nilgiri langur	<i>Semnopithecus johni</i>	12.12.2016	1:0	Escaped(Cyclone)
3	Rhesus macaque	<i>Macaca mullata</i>	02.03.2017	2:4	Sri Chamarajendra Zoological Garden, Mysuru
4	Sambar	<i>Cervus unicolor</i>	02.03.2017	1:1	Sri Chamarajendra Zoological Garden, Mysuru

### BIRDS

Sl. No	Name of the species	Scientific Name	Date	Sex	Place
1	White peafowl	<i>Pavo cristatus</i>	11.09.2016	2:2	Thiruvananthapuram zoo
2	Black headed munia	<i>Lonchura malabarica</i>	12.12.2016	0:0:25	Escaped(Cyclone)

### REPTILES

Sl. No	Name of the species	Scientific Name	Date	Sex	Place
1	Reticulated python	<i>Python reticulatus</i>	11.09.2016	2:2	Thiruvananthapuram zoo
2	Reticulated python	<i>Python reticulatus</i>	02.03.2017	1:1	Sri Chamarajendra Zoological Garden, Mysuru

# FINANCIAL HIGHLIGHTS FOR THE YEAR 2016-17

## REVENUE DETAILS

Sl. No	Particulars	Amount
1	Entrance, BOV, Lion safari vehicle	84982456
2	Animal Adoption	393157.8
3	Rest House Rent Collection	8750
4	ECC Received from Hotel Tamil Nadu	466308
5	Rent received from Hotel Tamil Nadu	1380926
6	Water charges received from Hotel T.N	3000
7	Rent received from TANTEA (VBS)	291000
8	ECC received from TANTEA (VBS )	13034
9	Rent received from TANTEA (Butterfly Park)	135000
10	ECC received from TANTEA (Butterfly Park)	0
11	Rent received from MPDA	58040
12	ECC received from MPDA	6000
13	Rent received from Aavin	715921
14	ECC received from Aavin	134040
15	Rent received from Poompukar	52091
16	ECC received from Poompukar	11000
17	ECC received from cycle contractor	13000
18	Contract Registration / Renewal	154350
19	Interest received ZAT a/c (FD Interest)	13674131
20	Interest received ZAT a/c Normal Interest	474165
21	Sale of Tender Schedule	500100
22	Sale of Waste bone	243740
23	Toilet Lease Amount	629338
24	Parking area lease	885700
25	Cycle stand lease	410650
26	Fine (land rent)	5764
27	Fine (Firewood) late removal	20000
28	Fine	2000
29	Sale of iron scraps	4575
30	Caution deposit and study fees	36000
31	Fire wood sale amount	2572800
32	Removal of Eucalyptus Tree by TNPL	1774752
33	Form I Red permit cost	18600
	<b>TOTAL</b>	<b>110070388.8</b>

## EXPENDITURE DETAILS

Sl. No	Particulars of work	As per G.O.(D) no 175 E & F (FR5) dept dt 13.10.2016 for 2016-17	Progressive
<b>RECURRING (REVENUE EXPENDITURE)</b>			
1	Feed	37500000	37499672
2	Wages to casual labourers	12000000	12000000
3	Office maintenance	1000000	173725
4	Maintenance of animal houses, lawns, roads, fodder plots, Drainage, Water supply lines, Compound walls, Electricity charges etc.	25000000	18759039
5	Maintenance of visitors amenities	5000000	4983333
6	Zoo school, Signage, maintenance of buildings, staff amenities etc	5000000	2414972
7	Machinery and equipments	3000000	1752816
8	Maintenance of Vehicle	2000000	1999046
9	Medicines	1000000	999549
10	Printing tickets, brochures, etc	500000	500000
11	Animals purchase and transportation	3000000	158480
12	Non recurring (Capital expenditure)	10000000	780339
<b>Total</b>		<b>105000000</b>	<b>82020971</b>

## FEED AND UPKEEP OF RESCUE CENTRE

Sl. No	Particulars of work	Amount approved by Central Zoo Authority as per Lr no 2732/06 dt 28.09.216 MOU (Rs. In lakhs)	Progressive
1	Feed and suppliments	2924000	2384674
2	Veterinary care to animals	200000	95276
3	Staff	300000	186060
<b>Total</b>		<b>3424000</b>	<b>2666010</b>

## ESTABLISHMENT OF BUTTERFLY PARK EXPENDITURE FOR THE YEAR 2016-17

Sl. No	Particulars of work	Amount available at ZAT account	Progressive
1	Establishment of butterfly park (RS 605302/- spent during 2015-16 in Zoo Authority of Tamil Nadu A/C)	14658914	594648

## DISASTER MANAGEMENT ACTIVITIES ON EXTENSIVE DAMAGES IN ZOO DUE TO VARDHAH CYCLONE ON 12.12.2016 STATE DISASTER RESPONSE FUND SANCTIONED BY STATE GOVERNMENT

Sl. No	Particulars of work	SDRF Amount sanctioned	Progressive
1	Disaster response fund sanctioned by state Government Vide G.O 298 Revenue (DMII) Dated 14.12.2016 (amount incurred from Z A T A/C and subsequently state fund remitted back into Z A T A/c)	12000000	12000000
2	Fund incurred from Z A T A/c	0	9102030
<b>Total</b>		<b>12000000</b>	<b>21102030</b>

## OTHER EXPENDITURES

Sl. No	Particulars of work	Fund ordered for transfer to Research, Kolapakkam	Progressive
1	Establishment of Forest Genetics Resources Tree Park at Chennai with the Financial Support of Zoo Authority of Tamil Nadu - G.O. Ms. No. 137 E&F (FR-VI) Department, dated. 22.11.2016. (Rs. 19.87 lakhs has been released to DCF, Kolapakkam vide cheque No. 481332, dated. 10.03.2017.	20000000	1987000
2	Conducting Special Health Camp for Department Elephant during 2016-17(G.O. (D) No. 68 E&F (FR-V) DATED. 20.03.2017)	656000	44644

# ZOO INVENTORY REPORT

## ABSTRACT

Sl. No.	Class	Stock as on			
		01.04.2016		31.03.2017	
		Species (in Nos.)	Animals (in Nos.)	Species (in Nos.)	Animals (in Nos.)
1.	Mammals	44	447	43	445
2.	Birds	87	1417	93	1433
3.	Reptiles	34	398	33	424
<b>Total</b>		<b>165</b>	<b>2262</b>	<b>169</b>	<b>2302</b>

Sl. No.	Name of the species	Stock as on 01.04.2016				During the period								Stock as on 31.03.2017								
		M	F	U	T	Births			Acquisitions			Disposals			Deaths			M	F	U	T	
						M	F	U	M	F	U	M	F	U	M	F	U					
<b>SCHEDULE I and II</b>																						
<b>BIRDS</b>																						
1	PEAFOWL (Pavo cristatus)	9	6	7	22				3	13							1		12	18	7	37
2	SPOONBILL WHITE (Platalea leucorodia)	0	0	1	1														0	0	1	1
3	EASTERN WHITE STORK (Ciconia ciconia)	0	0	1	1														0	0	1	1
4	GREAT PIED HORNBILL (Buceros bicornis)	0	1	0	1														0	1	0	1
5	SEA EAGLE WHITE BELLIED (Haliaeetus leucogaster)	1	1	0	2														1	1	0	2
<b>TOTAL SCH I &amp; II BIRDS</b>		<b>10</b>	<b>8</b>	<b>9</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>13</b>	<b>20</b>	<b>9</b>	<b>42</b>
<b>MAMMALS</b>																						
1	ASS WILD INDIAN GHORKHAR (Equus hemionus khur)	1	1	0	2		1												1	2	0	3
2	BEAR HIMALAYAN BLACK (Selenarctos tibetanus)	1	0	0	1														1	0	0	1
3	BEAR SLOTH (Melursus ursinus)	3	2	0	5									1					2	2	0	4
4	BINTURONG (Arctictis binturong)	1	0	0	1														1	0	0	1
5	BLACK BUCK KRISHNA MRIG (Antelope cervicapra)	5	3	0	8		2	2									1		5	4	2	11
6	CAT JUNGLE (Felis chaus)	1	0	0	1														1	0	0	1
7	SWAMP DEER (Cervus duvauceli)	5	7	1	13			1									1		5	6	2	13







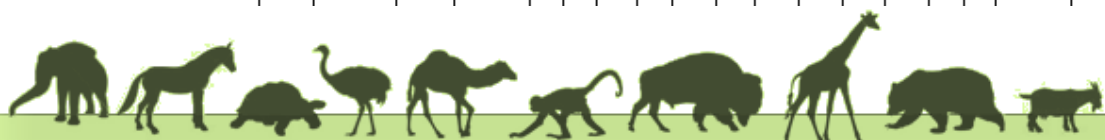
Sl. No.	Name of the species	Stock as on 01.04.2016				During the period												Stock as on 31.03.2017			
						Births			Acquisitions			Disposals			Deaths						
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	T			
14	DUCK (Common, Manila & Muscovy) (Anatidae sp.)	0	0	0	0													0	0	0	0
15	RUDDY SHELDUCK (Tadorea ferruginea)	0	0	0	0													0	0	0	0
16	DUCK SPOT-BILLED ( <i>Anas poecilorkhyncha</i> )	0	0	1	1													0	0	1	1
17	EGRET CATTLE (Bubulcus ibis)	0	0	4	4													0	0	4	4
18	EGRET LITTLE (Egretta garzetta)	0	0	77	77					5								0	0	82	82
19	OSTRICH ( <i>Struthio camelus</i> )	5	4		9													5	4	0	9
20	RHEA( <i>Rhea americana</i> )	0	0	0	0				2	2						1		2	1	0	3
21	EMU ( <i>Dromaius novaehollandiae</i> )		2	4	6										2			0	0	4	4
22	FLAMINGO GREATER ( <i>Phoenicopterus antiguarum</i> )	0	0	1	1													0	0	1	1
23	FLAMINGO LESSER ( <i>Phoenicopterus minor</i> )	0	0	2	2													0	0	2	2
24	GOOSE ( <i>Anser anser</i> )	0	0	3	3													0	0	3	3
25	GOOSE WHITE ( <i>Anser anser</i> )	0	0	0	0													0	0	0	0
26	BAR HEADED GOOSE ( <i>Anser indicus</i> )	0	0	3	3													0	0	3	3
27	HERON EASTERN GREY ( <i>Ardea cinerea</i> )	0	0	18	18													0	0	18	18
28	HERON NIGHT ( <i>Nycticorax nycticorax</i> )	0	0	440	440													0	0	440	440
29	HERON POND ( <i>Ardeola grayii</i> )	0	0	3	3													0	0	3	3
30	IBIS WHITE ( <i>Threskiornis aethiopica</i> )	0	0	6	6													0	0	6	6
31	KITE BRAHMINY ( <i>Haliastur indus</i> )	0	0	1	1													0	0	1	1
32	INDIAN COMMON KITE ( <i>Milvus migrans</i> )	0	0	25	25													0	0	25	25
33	MACAW RED & GREEN ( <i>Ara chloroptera</i> )	0	0	1	1													0	0	1	1
34	MUNIA BLACK HEADED ( <i>Lonchura malabarica</i> )	0	0	52	52									25				0	0	27	27
35	MYNA COMMON ( <i>Acridotheres tristis</i> )	0	0	25	25													0	0	25	25
36	OWL BARN ( <i>Tyto alba</i> )	0	0	2	2													0	0	2	2
37	OWL INDIAN EAGLE ( <i>Bubo bengalensis</i> )	0	0	1	1													0	0	1	1
38	PARAKEET ALEXANDRINE ( <i>Psittacula eupatria</i> )	7	8	0	15					8					6	2		1	6	8	15
39	PARAKEET ROSE RINGED ( <i>Psittacula krameri</i> )	24	34	101	159													24	34	101	159



Sl No.	Name of the species	Stock as on 01.04.2016				During the period												Stock as on 31.03.2017					
		M	F	U	T	Births			Acquisitions			Disposals			Deaths			M	F	U	T		
						M	F	U	M	F	U	M	F	U	M	F	U						
40	PARAKEET ROSE RINGED (MUTANT)( <i>Psittacula krameri</i> )	7	3	12	22															7	3	12	22
41	REDBREASTED PARAKEET( <i>Psittacula alexandri</i> )	0	0	0	0				1	1										1	0	0	1
42	PARAKEET MALABAR ( <i>Psittacula columboides</i> )	0	0	0	0				1	1										1	0	0	1
43	PARAKEET BLOSSOM HEADED ( <i>Psittacula cyanocephala</i> )	2	2	1	5				1	1						1	1			2	2	1	5
44	PARROT AFRICAN GREY ( <i>Psittacus erithacus</i> )	2	1		3						2					1				1	1	2	4
45	PARROT ECLECTUS ( <i>Electus oratorius</i> )	1	0	0	1															1	0	0	1
46	ROSELLA EASTERN ( <i>Platyercus exinus</i> )	1	1	0	2															1	1	0	2
47	PARTRIDGE GREY ( <i>Francolinus pondicerianus</i> )	0	0	3	3															0	0	3	3
48	PEAFOWL WHITE ( <i>Favo cristatus</i> )	13	13	0	26				4	9		2	2		1					14	20	0	34
49	PELICAN GREY ( <i>Pelecanus philippensis</i> )	0	0	11	11						15									0	0	26	26
50	PELICAN ROSY / WHITE ( <i>Pelecanus onocrotalus</i> )	0	0	5	5															0	0	5	5
51	KALEEJ PHEASANT( <i>Lophura leucomelanos</i> )	1	1	0	2										1	1				0	0	0	0
52	REDJUNGLE FOWL ( <i>Gallus gallus murghi</i> )	2	1	0	3															2	1	0	3
53	GREY JUNGLE FOWL ( <i>gallus gallus sonneritti</i> )	1	1	0	2															1	1	0	2
54	RING NECKED PHEASANT( <i>Phasianus colchicus</i> )	0	0	0	0				1	1										1	1	0	2
55	PHEASANT GOLDEN ( <i>Chrysololophus pictus</i> )	1	2	0	3											1				1	1	0	2
56	PHEASANT SILVER ( <i>Lophura nycthemera</i> )	2	1	0	3					2										2	3	0	5
57	SEA GULL BROWN HEADED ( <i>Larus brunnecephalus</i> )	0	0	1	1															0	0	1	1
58	SHIKRA ( <i>Accipiter badius badius</i> )	0	0	1	1															0	0	1	1
59	STORK ADJUTANT LESSER ( <i>Leptoptilos javanicus</i> )	1	0	1	2															1	0	1	2
60	STORK ADJUTANT GREATER ( <i>Leptoptilos dubius</i> )	1	0	0	1															1	0	0	1
61	STORK PAINTED ( <i>Mycteria leucocephala</i> )	0	0	118	118															0	0	118	118
62	VULTURE WHITE BACKED BENGAL( <i>Gyps bengalensis</i> )	0	1	0	1															0	1	0	1
63	KOEL ( <i>Eudynamis scolopacea</i> )	1	1	0	2															1	1	0	2
64	BLUE ROCK PIGEON ( <i>Columbia livia</i> )	0	0	34	34															0	0	34	34
65	EMERALD DOVE ( <i>Chalcophaps indica</i> )	0	0	0	0															0	0	0	0
66	WHITE BREASTED WATERHEN ( <i>Amurornis phoenicurus</i> )	0	0	0	0															0	0	0	0
67	PURPLE SWAMP HEN ( <i>Porphyrio porphyrio</i> )	0	0	0	0															0	0	0	0
68	PEACH FACED LOVE BIRD ( <i>Agapornis roseicollis</i> )	2	2	2	6										1	2				1	0	2	3



SL No.	Name of the species	Stock as on 01.04.2016				During the period												Stock as on 31.03.2017				
						Births			Acquisitions			Disposals			Deaths							
		M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	T				
69	FISCHERS LOVE BIRD ( <i>Agapornis fischeri</i> )	3	3	0	6										2	1			1	2	0	3
70	ZEBRA FINCH( <i>Teniopygia guttata</i> )	10	10	0	20														10	10	0	20
71	GREATER COUCAL( <i>Centropus sinensis</i> )	0	0	0	0						1								0	0	1	1
72	BLUE AND GOLDEN MACAW( <i>Ararauna</i> )	1	1	2	4						1								1	1	3	5
73	SLATY BREASTED RAIL( <i>Gallirallus striatus</i> )	0	0	0	0														0	0	0	0
74	PADDYFIELD PIPIT( <i>Anthus rufulus</i> )	0	0	10	10														0	0	10	10
75	BLACK SWAN ( <i>Cygnus atratus</i> )	2	2	0	4										1				2	1	0	3
76	HILL MYNA( <i>Gracula religiosa</i> )	0	0	0	0														0	0	0	0
77	SERPENT EAGLE ( <i>Spilornis cheela</i> )	0	0	2	2														0	0	2	2
78	WHITE PIGEON ( <i>Columba livia</i> )	0	0	5	5														0	0	5	5
79	WHITE DOVE ( <i>Streptopelia decaocto</i> )	0	1	0	1														0	1	0	1
80	OPENBILL STORK( <i>Anastomus oscitans</i> )	0	0	1	1						1								0	0	2	2
81	PEARLY CONURE( <i>Pyrrhura lepida</i> )	1	1	0	2														1	1	0	2
82	MAROON BELIED CONURE( <i>Pyrrhura frontalis</i> )	1	1	0	2														1	1	0	2
83	GREEN CHEEK CONURE PINAPPLE( <i>Pyrrhura molinae</i> )	1	1	0	2														1	1	0	2
84	JENDAY CONURE ( <i>Aratinga jandaya</i> )	1	1	0	2														1	1	0	2
85	GREEN CHEEK CONURE CINNOMON( <i>Pyrrhura molinae</i> )	1	1	0	2														1	1	0	2
86	WHITE BROWED WAGTAIL( <i>Motacilla maderaspatensis</i> )	0	0	4	4														0	0	4	4
87	MONK PARAKEET ( <i>Myiopsitta onachus</i> )	2	2	0	4										1				2	1	0	3
88	GLOSSY IBIS( <i>Anhinga melanogaster</i> )	0	0	0	0				1	1	3				1	1			0	0	3	3
89	DARTER( <i>Anhinga melanogaster</i> )	0	0	0	0						4								0	0	4	4
90	CORMORANT LITTLE( <i>Phalacrocorax niger</i> )	0	0	30	30														0	0	30	30
91	DOVE SILVER DIAMOND( <i>Geopelia cuneata</i> )	10	10	0	20										4	3			6	7	0	13
92	LESSER WHISTLING DUCK ( <i>Dendrocygna bicolor</i> )	0	0	2	2														0	0	2	2
93	INDIAN VULTURE( <i>Gyps indicus</i> )	0	0	1	1														0	0	1	1
94	BUDGERIGARS( <i>Melopsittacus undulatus</i> )	6	6	0	12														6	6	0	12
95	RAINBOW LORIKEET ( <i>Trichoglossus haematodus</i> )	2	2	0	4										1				2	1	0	3
96	JAVA SPARROW( <i>Lonchura oryzivora</i> )	10	10	0	20										2				8	10	0	18
97	FOREST OWLET( <i>Athene blewitti</i> )	0	0	1	1														0	0	1	1
	<b>SCH III, IV &amp; EXOTIC BIRDS</b>	<b>139</b>	<b>136</b>	<b>1115</b>	<b>1390</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>13</b>	<b>19</b>	<b>38</b>	<b>2</b>	<b>2</b>	<b>25</b>	<b>22</b>	<b>20</b>	<b>0</b>	<b>128</b>	<b>133</b>	<b>1130</b>	<b>1391</b>	
	<b>TOTAL BIRDS</b>	<b>149</b>	<b>144</b>	<b>1124</b>	<b>1417</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>16</b>	<b>32</b>	<b>38</b>	<b>2</b>	<b>2</b>	<b>25</b>	<b>22</b>	<b>21</b>	<b>0</b>	<b>141</b>	<b>153</b>	<b>1139</b>	<b>1433</b>	









**ARIGNAR ANNA ZOOLOGICAL PARK**

**VANDALUR, CHENNAI**