



Pimpri Chinchwad Municipal Corporation

NISARGAKAVI BAHINABAI CHOUDHARY

PRANISANGRAHALAY

Sambhaji nagar, Chinchwad, Pune - 411019



ANNUAL REPORT

2017 - 18



Pimpri Chinchwad Municipal Corporation

**NISARGAKAVI
BAHINABAI CHOUDHARY
PRANISANGRAHALAY**

Sambhaji Nagar, Chinchwad, Pune -411 019.

Maharashtra, India

E-MAIL : zoo@pcmcindia.gov.in

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ANNUAL REPORT 2017-2018

APRIL 2018

PREFACE

Pimpri Chinchwad is the fastest growing cosmopolitan in the state of Maharashtra; popularly known as automobile and industrial hub. Being twin city of Pune and requirement of coping with rapidly developing industrial sector, the city has always been a leader in creating modern infrastructure facilities for its citizens. Creation and conservation of urban green-scapes has been given priority in its planning. Nisargakavi Bahinabai Choudhary Pranisangrahalay or previously 'Snake Park and Aviary' is one such project.

A small zoo focusing on Reptiles and Bird collection was envisioned in 1989 to enlighten city dwellers about the biological heritage of the region. It was only 3rd Reptile specialized zoo in the country at that time. Later the Park also included variety of birds, crocodile, turtles, monkeys, leopards etc. in its collection. Though the facility was attracting large number of visitors, the need of upgrading the facility to latest trends in the field was imperative. Accordingly, the Master Development Plan for Nisargakavi Bahinabai Choudhary Pranisangrahalay was prepared and approved by the Central Zoo Authority. The zoo is spread in 7.05 acres and is surrounded by residential zone. The theme selected in approved master plan is 'Reptiles and Aviary'. The proposed facility is expected to house 32 species of snakes, 14 species of turtles and tortoises, 2 varieties of crocodiles and 12 species of wetland birds.

A tender of Rs. 14 Cr was awarded for the civil works in year 2015. The civil developments will be accomplished by mid 2018. Necessary budgetary provisions have been made accordingly. The development is focused on creating naturalistic environments for all inmates. The zoo landscape is also planned to complement natural environment and emphasis is given to promote native plants.

Pimpri Chinchwad Municipal Corporation is committed to indulge in wildlife conservation and awareness.

Dr. Pravin Ashtikar

Addl. Commissioner

Pimpri Chinchwad Municipal Corporation

ACKNOWLEDGEMENT

It gives us great pleasure to bring forth the annual report for the year 2017-2018. Our dedicated colleagues in Pimpri Chinchwad Municipal Corporation have been working hard to develop this facility for the benefit of public and animals as well. We are indebted to all of them. We express our gratitude to the following officials and dignitaries of the Pimpri-Chinchwad Municipal Corporation, without the help of whom this zoo would never have taken shape.

Mr. Shravan Hardikar, I.A.S., Commissioner

Dr. Pravin Ashtikar, Additional Commissioner

Mr. Nitin Kalaje, Mayor

Dr. K. Anil Roy, Chief Medical Officer

Mrs. Anuradha Gorakhe, Hon. Corporator

Mr. Keshav Gholave, Hon. Corporator

Mr. Tushar Hinge, Hon. Corporator

Mrs. Mangala Kadam, Hon. Corporator & Ex. House Leader, PCMC

Mr. Sanjay Kamble, Executive Engineer Garden (Civil)

Dr. Arun Dagade, Veterinary Officer

This acknowledgment can never be complete without mention of Dr. Satish Gore for his dedication and efforts in sustaining this park. Though he is retired from his service his contribution is unparalleled.

We are also thankful to the Central Zoo Authority, Maharashtra State Zoo Authority, Zoological Survey of India, Zoo Outreach Organization, Department of Animal Husbandry (Govt. of Maharashtra) and the State Forest Department, for regular co-operation, help, guidance, assistance and encouragement rendered by them.

REPORT OF THE OFFICER-IN-CHARGE

Basic Information about the Zoo

S.No.	Particulars	Information
1	Name of the Zoo	Nisargakavi Bahinabai Choudhary Pranisangrahalay, Sambhaji Nagar, Chinchwad, Pune -411019
2	Year of Establishment	1 st January 1990
3	Address of the Zoo	Nisargakavi Bahinabai Choudhary Pranisangrahalay, Sambhaji Nagar, Chinchwad, Pune -411019
4	State	Maharashtra
5	Telephone Number	020-27371036
6	Fax Number	--
7	E-mail address	zoo@pcmcindia.gov.in
8	Website	www.pcmcindia.gov.in
9	Distance from nearest	Airport: Pune Airport - 18 km
		Railway Station: Chinchwad Railway Station – 5 km
		Bus Stand: Sambhaji Nagar Bus Stand – 300 mtrs
10	Recognition Valid upto (Date)	18-5-2018
11	Category of zoo	Small Zoo
12	Area (in Hectares)	2.85 Ha
13	Number of Visitors (Financial Year)	Adult : 24,693
		Children : 64,773
		Total Indian : 89,466
		Total Foreigners : No data Available
		Total Visitors: 89,466 (till Dec 17)
14	Visitors' Facilities Available in Zoo	Currently Zoo is closed for Renovation. Visitor facilities include resting shades, drinking water, wheel-chair, First-aid, etc.
15	Weekly Closure Day of the Zoo	Tuesday

Management Personnel of the zoo

Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Mr. Dipak S. Sawant, Curator
	Name of the Veterinary Officer	Dr. Ghanshyam M. Pawar
	Name of the Curator	Mr. Dipak S. Sawant, Curator
	Name of the Biologist	Ms. Bhagyashri D. More
	Name of the Education Officer	Ms. Bhagyashri D. More
	Name of the Compounder/ Lab Assistant	--
Owner / Operator of the Zoo		
17	*Name of the Operator	The Municipal Commissioner, Pimpri Chinchwad Municipal Corporation, Pimpri Pune - 411018
18	Address of the Operator	The Municipal Commissioner, Pimpri Chinchwad Municipal Corporation, Old Mumbai-Pune Highway Pimpri Pune - 411018
19	Contact details/Phone number of Operator	020 - 39 33 11 17
20	E-mail address of Operator	commissioner@pcmcindia.gov.in

INTRODUCTION

Nisargakavi Bahinabai Choudhary Pranisangrahalay, Chinchwad previously known as Snake Park & Aviary, is a Zoo established by Pimpri Chinchwad Municipal Corporation recognized by the Central Zoo Authority under Small Zoo Category. It was inaugurated on 30th December 1989 and officially declared open to public on 1st Jan.1990. Zoo has got approval for Master Development Plan 2015-25 and the subsequent development is under progress accordingly. The master plan has been approved by CZA vide letter no F.N. -19/727/93-CZA (180)(VOL.III) 815/2016 dated June 02, 2016. The administration has approved the necessary budget provisions and zoo is under reformation. The necessary civil changes as per approved Master Lay Out for phase I have been completed and development under phase II and Phase III are in progress simultaneously.

The upcoming Zoo facility is being developed on theme of "Reptiles and Aviary" specialized Zoo. Accordingly, the Central Zoo Authority has approved the collection on theme of Reptiles of Northern Western Ghats and Wetland Aviary in approved Master Development Plan.

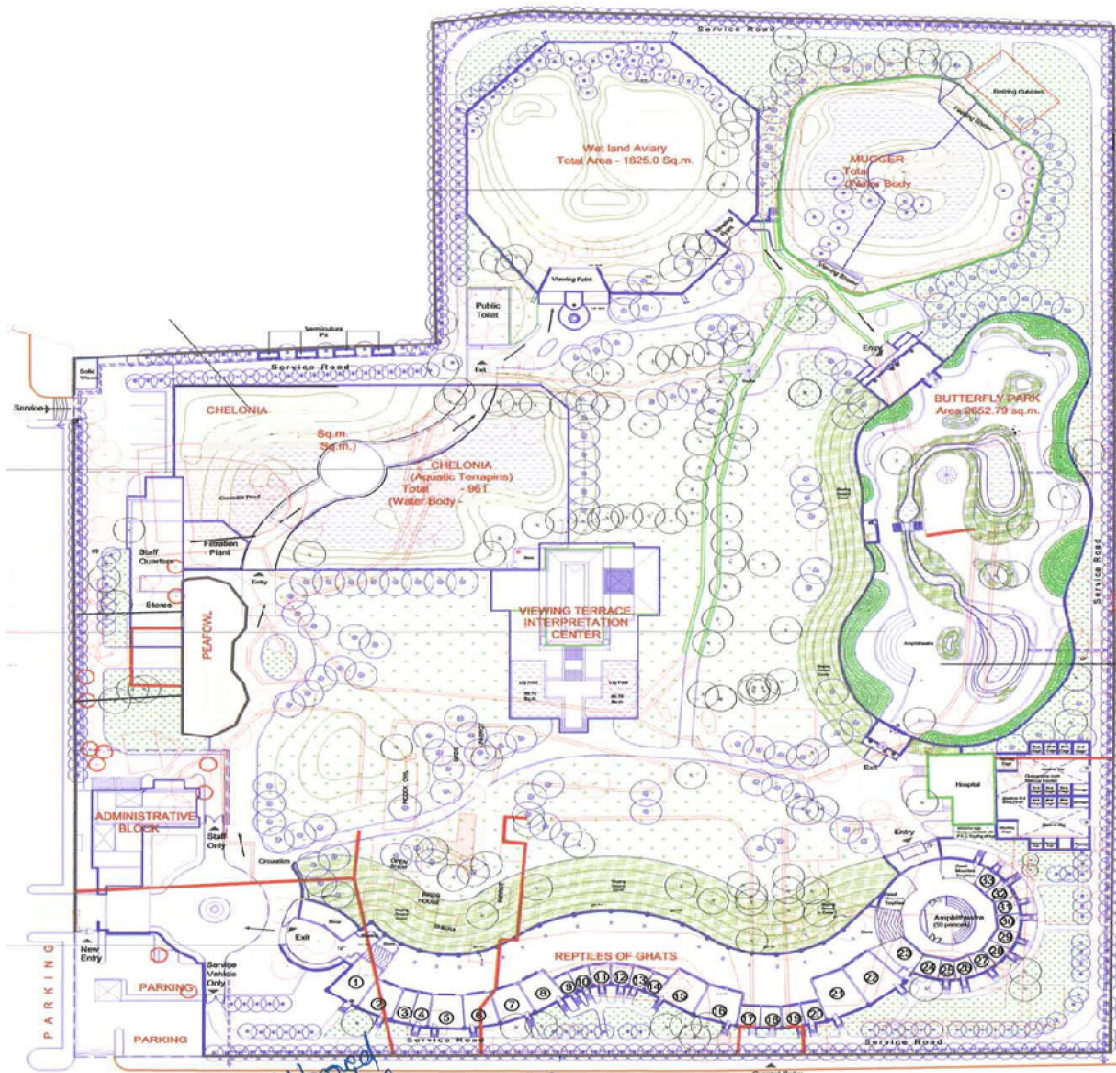


A rangoli portrait made during Sarprangawali Exhibition on occasion of Diwali

(Russell's Viper (*Daboia russelii*))

LOCATION

A total 7.05 Acre land has been earmarked for this project. It caters for the Twin City of Pimpri - Chinchwad and surrounding rural areas, developed mainly due to rapid urbanization and industrial growth. This township is extended towards north of Pune City along the National Highway No.4, joining Pune and Mumbai. The captive population of this city is around 17 Lakh. This zoo is the only wildlife facility in the area. It is situated 4 km Eastwards from Akurdi railway station, 5 km Northeast from Chinchwad railway station, 7 km West from Pune Nashik Highway, Bhosari and 6 km North of Pimpri.



Approved layout plan for proposed development

MISSION, VISION & OBJECTIVES OF THE ZOO

MISSION

To be an epitome center for conservation of endemic Herpetofauna and Avifauna found in the region.

VISION

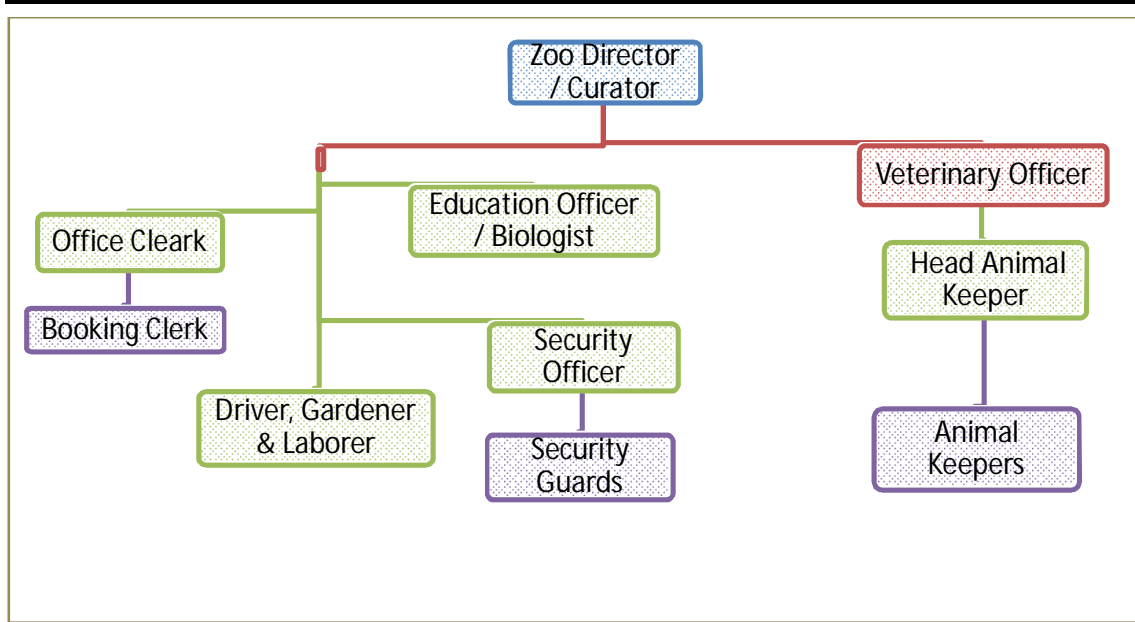
- 'Inspiring our community to create a better future for wildlife in India and across the world'
- To make it the best small category zoo by theme-based development for exhibition and education to the visitors about the endemic reptiles of the Western Ghats.)

OBJECTIVES

The proposed zoo development is in accordance with approved theme 'Reptiles of Ghats and Aviary'. With this unique theme, the zoo envisions collection of rare and endemic variety of Reptiles found in Western Ghats along with diversity of wetland birds. Considering the theme of zoo, it has following objectives.

- To educate students and visitors about importance of wildlife and emphasize the need for conservation of nature and natural resources.
- To rescue snakes, birds and sometimes other animals that enter into human habitation and release them back in the wild. Releasing activity is performed with the permission of Forest Office after receiving transit passes.
- To undertake Conservative breeding programs of different snake species which are endangered and release the offspring back into areas where population is declining
- To organize guided tours for school children and provide necessary information lectures, demonstrations, slide shows and related printed material with audio-visual media.
- To disseminate the current information on Biodiversity amongst the general public.
- To create proper enrichment in every enclosure as per requirement of the species considering the environmental changes.

ZOO ADMINISTRATION



HUMAN RESOURCES

Sr. No.	Designation	Number of sanctioned posts	Posts filled	Names of the incumbent
1	Curator (Director In-charge)	1	1 Contractual	Mr. Dipak S. Sawant
2	Veterinarian	1	1 Contractual	Dr. Ghanshyam M. Pawar
3	Biologist / Education Officer	1	1 Contractual	Ms. Bhagyashri D. More
4	Head Animal Keeper	1	---	---
5	Animal Keeper	2	2 (Labour)	Mr. Anil P. Raut Mrs. Jayashree D. Madane
6	Assistant Animal Keeper	6	---	---
	Total	12	5	

CAPACITY BUILDING OF ZOO PERSONNEL

- In- house training programs are organized periodically for zoo staff and volunteers.
- Various training programs attended by zoo staff whenever invited and organized by The Central Zoo Authority of India.
- Mr. Deepak Sawant, Curator attends director meets organized by Maharashtra State Zoo Authority.
- Mr. Deepak Sawant, attended the workshop on development of new safari park at Ranthambore, Rajasthan under the guidance of eminent zoo expert Mr. Barnard Harrison, (Barnard Harrison & Associates, Singapore) and Mr. Dave Morgan, (Founder – Wild Welfare, South Africa).
- The zoo is now member of International Zoo Educators Association (IZEA). Miss Bhagyashri More has been nominated for Job Exchange Program 2018 to job training at San Diego Zoo Global, San Diego, California, USA.
- The zoo is in discussion for long term collaboration with Department of Environmental Sciences, University of Pune and Department of Biodiversity, Abasaheb Garware College.
- Subject concerned expertise are invited to deliver lectures at zoo to educate staff and targeted audience on celebration events.

ADVISORY COMMITTEES

ZOO ADVISORY COMMITTEE

Zoo advisory committee has been reformed to observe the ongoing developmental activities in the Zoo.

Date of constitution: 20th March, 2017

Members: The committee constitutes of the following members.

Zoo Advisory Committee Members

1	Dr. Pravin Ashtikar	Additional Commissioner	Chairman
2	Mr. Sanjay Kamble	Executive Engineer	Member Secretary
3	Dr. Arun Dagade	Municipal Veterinary Officer	Coordinator
4	Mr. Deepak Sawant	Curator	Member
5	Mrs. Mangala Kadam	Corporator	Member
6	Mrs. Anuradha Gorakhe	Corporator	Member
7	Mr. Tushar Hinge	Corporator	Member
8	Mr. Keshav Gholave	Corporator	Member
9	Mr. Suresh Salunkhe	Chief Garden Superintendant	Member
10	Mr. Pankaj Jain	Zoo Architect	Member
11	Mr. Anuj Khare	State Wildlife Advisory Board	Member
12	Dr. Rahul Marathe	Renowned Entomologist	Member
13	Dr. Rajkumar Jadhav	Director, RGZP	Member
14	Dr. Mayuri Panse	Educationalist	Member
15	Miss. Shreelaxmii Annabathula	DCF, Pune	Member
16	Mr. Umesh Vaghela	NGO, Representative	Member
17	Mr. Kedar Bhide	Renowned Herpetologist	Member

ZOO ADVISORY COMMITTEE MEETINGS

Zoo advisory committee meetings are regularly held for discussions on Zoo Development related issues. Addl. Commissioner is the chairman of this committee. Under his committed leadership the development is acclaimed. The committee is represented by higher

authorities in Municipal Corporation, representatives of local electoral members, eminent wildlife experts and a member from State Wildlife Board.



Zoo advisory committee meeting

The committee has been formulated considering the role of Zoo's in conservation. Due to varied expertise and holistic development approach the committee is of opinion that the Zoo shall focus on conservation and display of lesser known small fauna. The committee has well thought-out display of arachnids (Spiders and Scorpions) as its USP proposition in upcoming development. The committee is also considering conservation breeding of native fishes and amphibians as a priority.

Dates on which meetings held during the year:

1. 20-03-2017
2. 22-09-2017
3. 12-01-2018

HEALTH ADVISORY COMMITTEE

Health advisory committee for PCMC Zoo was proposed in January 2018 Zoo Advisory Meeting. The committee has accepted the proposal to constitute the same. The constitution of this committee is under process.

FOOD, HEALTH, HYGIENE AND SAFETY MEASURES

The Zoo administration is committed for animal welfare and wildlife conservation. Health and hygiene of animals are given highest priority in its management. For psychological health of Zoo inmates the new facility emphasizes naturalistic habitat enrichment in every enclosure. Use of live plantations prioritizing native plant varieties are being used in upcoming development.

Following are the routine practices for monitoring health of animals and safety of staff and visitors undertaken in the Zoo:

- De-worming and vaccination is scheduled periodically.
- De-beaking and nail clipping of birds is a periodic practice.
- Perching are repaired or replaced with new ones regularly. In new enclosures emphasize has been given to produce natural perching on live plants.
- Animal waste, food wastage, leaf litter and other biodegradable wastes are recycled to produce compost. No chemical fertilizers or pesticides are used in Zoo campus.
- Exhibit substrates /furnishings are modified or changed totally whenever necessary. Hiding places and escape refuges are maintained to reduce stress levels.
- Heat convectors, air coolers, humidifiers and are used during climatic extremities.
- Volunteers and staff control the vandalism.
- Food and drinking water is regularly examined.
- Plastic Carry bags are banned in the zoo. Necessary signages are displayed to prevent vandalism.



Animal and bird health check up and treatments on regular basis

FEEDING PROTOCOL/SCHEDULE

HERBIVORE

Sr. No.	Name	Feed Item	Approx. Quantity (Per animal) (Gms)	Day of fasting
1	Indian Peafowl	Mixed Vegetables- Leafy Vegetables-Mixed Grains	100-100-150	---
2	Budgerigar	Coriander-Millet-Sprouts	10-20-10	---
3	Cockatiel	Coriander-Millet-Sprouts	20-40-20	---
4	Alexandrin Parakeet	Mixed Fruits-Coriander-Sprouts-Oilseeds	20-10-10-50	---
5	Rose-ringed Parakeet	Mixed Fruits-Coriander-Sprouts-Oilseeds	20-10-10-50	---
6	Plum-headed Parakeet	Mixed Fruits-Coriander-Sprouts-Oilseeds	20-10-10-50	---
7	African Love Bird	Coriander-Millet-Sprouts	20-40-20	---
8	Spot-billed Duck	Mixed Vegetables- Leafy Vegetables-Mixed Grains	50-50-100	---
9	Starred Tortoise	Mixed Vegetables-Mixed Fruits-Dry Prawns	150-50-10	---



Peacock mixture

CARNIVORE

Sr. No.	Name	Feed Item	Approx. Quantity (Per animal) (Gms/Units)	Feeding Frequency
1	Common Cobra	Mice	2	Once a week
2	Russell's Viper	Mice	2	Once a week
4	Dhaman	Mice	2	Once a week
5	Checkered Keelback	Mice/Live Fish	1/2	Once a week
6	Trinket	Mice	1	Once a week
7	Sand Boa	Mice	1	Once a week
8	Earth Boa	Mice	1	Once a week
9	Banded Racer	Mice	1	Once a week
10	Wolf Snake	Mice	1	Once a week
11	Grass Snake	Mice/ Live Fish	1/1	Once a week
12	Common Krait	Mice	2	Once a week
13	Wall's Sind Krait	Mice	2	Once a week
14	Bamboo Pit Viper	Mice	1	Once a week
15	Marsh Crocodile* (Adult)	Beef/Chicken	1500-2000	Twice a week (Summer) Once a week (Winter)
	Marsh Crocodile* (Sub Adult)	Beef/Chicken	700-1000	Twice a week
	Marsh Crocodile* (Baby)	Beef/Chicken/Fish	100-200	Thrice a week
16	Flap-shelled Turtle	Beef/Chicken	40	Thrice a week
		Dry Prawns	10	
		Coriander	20	
17	Spotted Black Terrapin	Beef/Chicken	40	Thrice a week
		Dry Prawns	10	
		Coriander	20	
18	Indian Black Turtle	Beef/Chicken	40	Thrice a week
		Dry Prawns	10	
		Coriander	20	
19	Deccan Soft-shell Turtle	Beef/Chicken	80	Thrice a week
20	Red-eared Terrapin	Beef/Chicken	30	Thrice a week
		Dry Prawns	10	
		Coriander	20	
21	Barn Owl	Beef/Chicken/Mice	80/2	Daily (Except Sunday)
22	Pariah Kite	Beef/Chicken	150	Daily (Except Sunday)

VACCINATION SCHEDULE

The vaccination is performed SOS on warnings from State Animal Husbandry and Central Zoo Authority.

DE-WORMING SCHEDULE

De-worming is carried out in every quarter for birds.

Sr. No.	Species	Drug used	Month
1	Indian Peafowl	Albendazole	May, Aug, Nov, Feb
2	Budgerigar	Albendazole	May, Aug, Nov, Feb
3	Cockatiel	Albendazole	May, Aug, Nov, Feb
4	Alexandrin Parakeet	Albendazole	May, Aug, Nov, Feb
5	Rose-ringed Parakeet	Albendazole	May, Aug, Nov, Feb
6	Plum-headed Parakeet	Albendazole	May, Aug, Nov, Feb
7	African Love Bird	Albendazole	May, Aug, Nov, Feb
8	Spot-billed Duck	Albendazole	May, Aug, Nov, Feb
9	Starred Tortoise	Albendazole	May, Aug, Nov, Feb

DISINFECTION SCHEDULE

Since, the zoo is under renovation, enclosure locations and surface soil has been changed recently. Otherwise, the surface soil and perches are disinfected periodically using suitable media. Cage resting and solar exposure is performed routinely to avoid chances of infection.

HEALTH CHECK-UP OF EMPLOYEES FOR ZOO NOTIC DISEASES

Every year in month of June employees undergo health check-up for zoonotic diseases. No suspect was found in the current year. At the time of inspection employees were vaccinated with Anti-Rabies and Tetanus.

SEASONAL MANAGEMENT PRACTICES

- During summer afternoons, water is sprinkled in bird enclosures.
- For reptiles, desert coolers are installed to regulate temperature during peak summer time.
- Incandescent light bulbs are used as heating source in snake boxes during winter season.



Snake boxes with incandescent light bulb heaters

DEVELOPMENT ACTIVITIES

A small zoo focusing on Reptiles and Bird collection was envisioned in 1989 to enlighten city dwellers about the biological heritage of the region. It was only 3rd Reptile specialized zoo in the country at that time. Though the facility was attracting large number of visitors, the need of upgrading the facility to latest trends in the field was imperative.

Accordingly, the Master Development Plan for Nisargakavi Bahinabai Choudhary Pranisangrahalay was prepared and approved by the Central Zoo Authority. The zoo is spread in 7.05 acres and is surrounded by residential zone. The theme selected in approved master plan is 'Reptiles and Aviary'. The proposed facility is expected to house 32 species of snakes, 14 species of turtles and tortoises, 2 varieties of crocodiles and 12 species of wetland birds.

The Zoo Master Development Plan has been approved by the Central Zoo Authority in year 2014-15. A tender of Rs. 14 Cr was awarded for the civil works in year 2015. Necessary budgetary provisions have been made to accomplish the civil developments by mid 2018. The development is focused on creating naturalistic environments for all inmates. The zoo landscape is also planned to complement natural environment and emphasis is given to promote native plants.

Technical posts recommended by CZA in Master Plan have been included in PCMC's proposed RR structure. Curator was appointed on honorarium basis in Jan 2017. A Veterinarian and a Biologist were appointed on honorarium basis in Aug 2017. Animal keepers appointed on honorarium basis in Aug 2017. It is proposed to appoint these posts on permanent establishment.

The civil works proposed in the development are under progress. Phase I of the development was completed in June 2016. In First phase construction of Compound wall, peripheral underground water and drainage line, new toilet block and peripheral pathway were completed. Development activities of Phase II and Phase III are undertaken simultaneously to conclude the developments in stipulated time.

ZOO ENTRANCE



Proposed Entrance Gate (Thematic representation)



**Entrance and Newly Proposed Administrative Block (Inside View)
(Thematic representation)**



Current status of Entrance Gate and Administrative block

CHELONIA SECTION



3D View of Chelonia (Thematic representation)



Current status of Chelonia Section

WETLAND AVIARY



3D View of Wetland Aviary (Thematic representation)



Current status of Aviary Section

MUGGAR AND GHARIAL SECTION



3D view of Muggar and Gharial Enclosure (Thematic representation)



Current status Muggar and Gharial Enclosure



Current status Muggar and Gharial Enclosure

REPTILES OF GHATS SECTION



Aerial View of Reptiles of Ghats (Thematic representation)



Current status Reptiles of Ghats

Visits by dignitaries

Visit by Hon. Mr. S. S. Dole, Member Secretary, MSZA



Mr. Shravan Hardikar, I.A.S., Commissioner, PCMC visited zoo



Visit by Dr. Pravin Ashtikar, Addl. Commissioner, PCMC



EDUCATIONAL PROGRAMMES AND TRAININGS AT ZOO

THE ROLE OF ZOOS IN CONSERVATION EDUCATION

Zoos have indubitable role in teaching people about the secrets and miracles of life. According to the World's Zoo Strategy, zoos have four main purposes and goals:

1. Recreation, providing a "green touch"
2. Education about the diversity of life
3. Research on wildlife using the captive facilities for studies not possible in wild
4. Conservation of endangered species for which only captivity can provide shelter

Zoos are there to educate the next generation so that they will grow up inspired by wildlife and learn to respect it. This is often true, and there are many exemplary zoos and aquariums around the world doing this. Emphasis is on biological facts, threats to wild populations, and what actions you can take to make a difference.

Going to a zoo can be described as an activity for people in their spare time, and it is about enjoyment and seeing interesting animals which they may otherwise never get to see. A trip to the zoo can be more than just a fun day trip for various groups of people; it's full of learning opportunities as well. The zoo provides opportunities to learn about different animal species, their habitats and behaviour. A visit to the zoo should be educational and even a bit inspiring. "A good zoo would leave you changed"...You'd leave the zoo not just with a better understanding of the complexity and interdependence of nature and the extraordinary diversity of natural forms, but also with a passion for finding ways to make the world more environmentally harmonious.

Education should be an integral part of the modern zoo. People can learn passively or informally (e.g. by seeing an animal and hearing about or reading interesting facts by the enclosure) or more formally (e.g. listening to talks and attending classroom sessions) enclosure), e.g. sessions). Either way there is great potential for zoos to encourage concern about the environment, threatened species and human impacts - thus promoting the need for sustainability. Zoos can be inspirational, providing powerful messages which translate to positive memories, thus encouraging personal compassion and responsibility for conservation.

EDUCATIONAL ACTIVITIES AT ZOO

After the joining of Education Officer in August 2017; we are conducting guided tour for School students in Zoo premises and lectures in Schools. Also we had organized various competitions and lectures on the occasion of Nag-panchami, Ganpati festival and Wildlife Week 2017.

Various days are observed and celebrated at zoo such as sparrow day, wild life week, environment day, nag-panchami and world rabies day and world zoonoses day etc.

WORLD ENVIRONMENT DAY

On occasion of World Environment Day 5th June 2017, a small plantation program was conducted in Zoo campus. Mr. Umesh Wagela, renowned Environmentalist and bird watcher was invited to deliver a talk on importance of native trees and their role ecological balance. He also shared his experiences on sustainable living and green alternatives.



Plantation of Native trees

LECTURES DURING NAG-PANCHAMI

Nag-panchami is a traditional festival celebrated in many parts of India. This festival is celebrated to express gratitude towards snakes for their contribution in Agricultural Pest Control. Over the years, the original concepts have changed and snakes are being ignored.

PCMC Zoo celebrates Nag Panchami every year to revive the traditional culture of respecting snakes.

Apart from traditional means of celebrating Nag-panchami, Park conducts awareness activities for visitors in the zoo. This year park successfully inoculated its agenda to more than 15,000 women visitors on the day.

Apart from this, we also conducted audio-visual lectures to spread the message. Zoo conducted lectures and awareness programs in 6 schools targeting more than 1000 students in total. Similarly, approx **700 students** from different schools in Pimpri Chinchwad area received this information during their visit at the zoo.



Inauguration of School Environment Club on occasion of Nag-Panchami on 27th July, 2017



Curator talking to students on their queries

OUTREACH ACTIVITIES DURING GANESH FESTIVAL

A tree day lecture series based on **Wildlife and Biodiversity** theme was conducted during Ganpati Festival at Pradyanbodhini High School, Talwade. Mr. Deepak Sawant and Miss. Bhagyashri More conducted audio-visual lectures about biodiversity, Tiger Census techniques and birds of Maharashtra. Kids enjoyed watching video clips of Wildlife in action performing their daily chores.

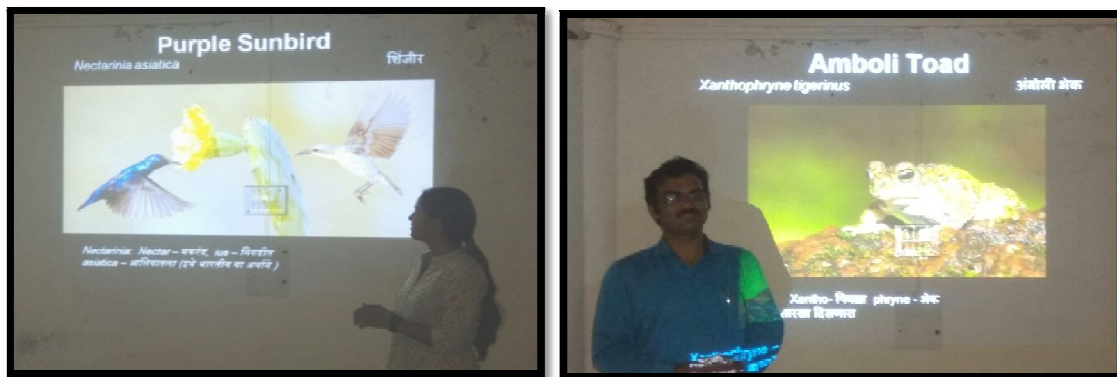


WILDLIFE WEEK

- Mr. Deepak Sawant, Curator was invited as a guest lecturer at Department of Environmental Sciences, University of Pune on the occasion of Wildlife Week on 5th October, 2017.
- The Zoo celebrated International Wildlife Week by organizing various events from 4th to 8th of October this year. The prize distribution ceremony was organized on 29th November 2017.

LECTURE SERIES

- Zoo Education officer, Miss. Bhagyashri More delivered a lecture on “Birds of Maharashtra” on 4th October. She began her talk with introducing What are Birds?, Their habitat and lifestyle and the different types of birds found in Maharashtra
- On 5th October, Mr. Deepak Sawant introduced all the participants “Binomial Nomenclature system and interesting stories associated with naming some fauna”. This unique approach of teaching gained a high-spirited response from the audience.



Lecture series organized during Wildlife Week 2017

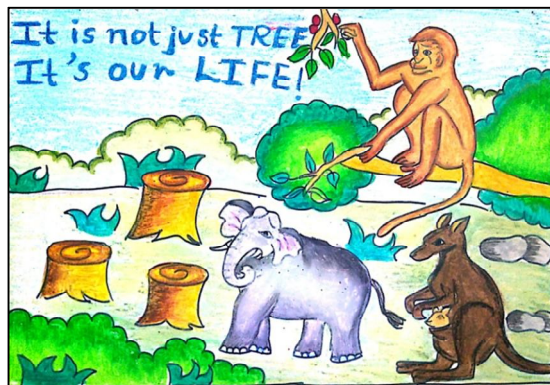
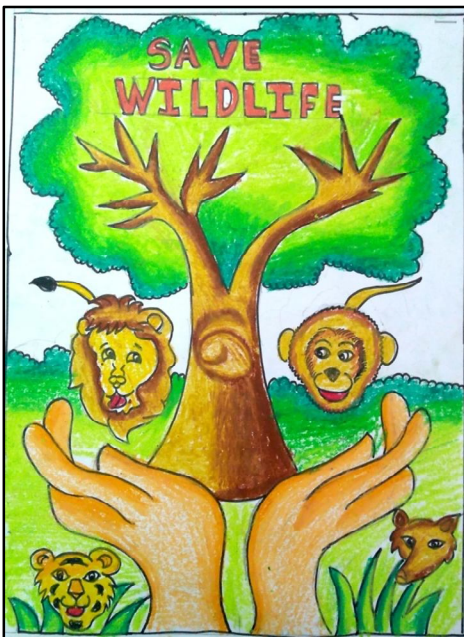
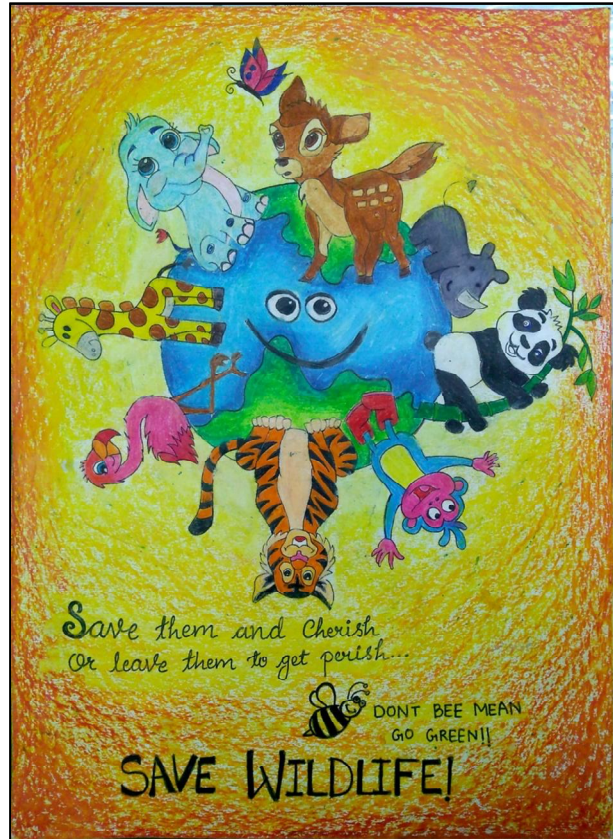
- On 3rd day (6th October) a documentary filmed on different aspects of lifestyle of Tiger was screened.

DRAWING COMPETITION

- A drawing competition for school kids was organised on 4th day. Participants were categorised into three groups such as Group I: 1st – 4th, Group II: 5th – 7th and Group III: 8th – 10th.



Participants of drawing competition



Selected entries from drawing competition

WALL PAINTING COMPETITION

- Wall painting completion was organized for college students and open group on 8th October themed on “Glimpses of Wildlife”. The program commenced by participants receiving all the best wishes and greetings from local corporators Mrs. Anuradha Gorakhe, Mr. Keshav Gholave, Mr. Tushar Hinge and Mrs. Mangala Kadam.
- Drawing and wall painting competitions were judged by Professors form renowned art college in Pune; Abhinav Kala Mahavidyalaya.

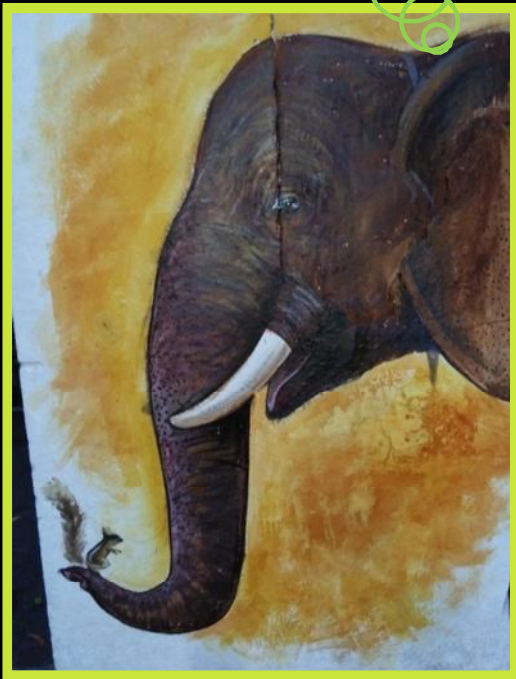
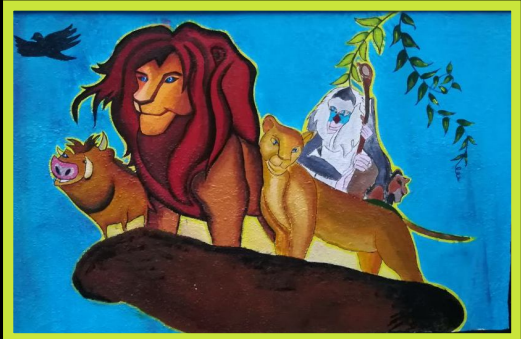


Wall painting Competition



Prof. Raosaheb Gurav and Prof. Sudhakar Chavhan while judging wall painting competition

**Glimpses of
Wall Painting
competition
2017**



PRIZE DISTRIBUTION CEREMONY

- The prize distribution ceremony was organized on 29th November 2017 in zoo campus. The prizes were awarded to all the winners of Drawing and Wall Painting competition from the hands of Prof. Sudhakar Chavhan and local corporators Mrs. Anuradha Gorakhe, Mr. Keshav Gholave, Mr. Tushar Hinge and Mrs. Mangala Kadam.



Prize distribution ceremony



Winners of Wall painting competition

RANGOLI EXHIBITION

On the occasion of Diwali, a very unique Snake Rangoli exhibition was organized for citizens of Pimpri - Chinchwad from 19th to 22nd October 2017. The exhibition was inaugurated at the hands of Hon. Shree. Achyut Hange, Addl. Commissioner, PCMC. Renowned environmentalist Mr. Vikas Patil was the chief guest of the event. Local corporators Mrs. Anuradha Gorakhe, Mr. Keshav Gholave, Mr. Tushar Hinge and Mrs. Mangala Kadam were also present for this event. More than **5000** people visited and appreciated this one of its kind event.



Glimpses of Rangoli Exhibition



Rangoli portraits by Ganesh Mane and team from Rashtriya Kala Academy

SCHOOL VISITS TO THE ZOO

An appeal was made to schools and pre-schools to take advantage of various Educational activities conducted in the Zoo. **100+** Schools responded to this by visiting Zoo between August and December 2017.

Miss. Bhagyashri More, Education Officer conducted guided tours for these children. Various interactive games were conducted to impart conservation message.



VISITOR RESPONSE



Interaction with visitors



Visitors during public holidays

RESEARCH

Following research projects were undertaken during year 2017 – 18.

Sr. No.	Research/Thesis Topic	Student Name	Institution
1	A study on awareness on wildlife among visitors.	Snehal Powar	Chatrapati Shahu Institute of Business Education and Research, Shivaji University, Kolhapur.
2	A study on awareness on wildlife among visitors.	Asmita Bhosale	Chatrapati Shahu Institute of Business Education and Research, Shivaji University, Kolhapur.
3	Problems in urban Zoo management.	Smita Kulkarni	Forest Training Academy, Haldwani (Nainital)
4	Influence of pollution on birds of Pune University Campus.	Veronisha Joseph Fernandes	Department of Environmental Sciences, University of Pune
5	Ecology of Birds at Pashan Lake.	Jyotiram Janardan Shedge	Department of Environmental Sciences, University of Pune
6	Study of Arachnid diversity in PCMC Zoo campus.	Abhijit Patil	Zoo Volunteer

ANIMAL INVENTORY

CURRENT STOCK

INVENTORY CLOSING ON MARCH 2018

[A] REPTILES						
Sr. No.	COMMON NAME	SCIENTIFIC NAME	M	F	U	TOTAL
1	Common Cobra	<i>Naja n. naja</i>	2	6	0	8
2	Russell's Viper	<i>Vipera russelli</i>	2	2	0	4
3	Dhaman	<i>Ptyas mucosa</i>	2	6	0	8
4	Checkered Keelback	<i>Xenochrophis piscator</i>	3	3	1	7
5	Marsh Crocodile	<i>Crocodylus palustris</i>	1	1	4	6
6	Flap-shelled Turtle	<i>Lissemys punctata</i>	0	3	10	13
7	Trinket	<i>Coelognathus helena</i>	1	3	0	4
8	Sand Boa	<i>Eryx conicus</i>	2	2	0	4
9	Earth Boa	<i>Eryx johnii</i>	1	2	1	4
10	Banded Racer	<i>Argerogena fasciolatus</i>	1	1	0	2
11	Wolf Snake	<i>Lycodon aulicus</i>	1	1	0	2
12	Grass Snake	<i>Macropisthodon plumbicolor</i>	1	1	2	4
13	Starred Tortoise	<i>Geochelone elegans</i>	3	4	1	8
14	Common Krait	<i>Bungarus caeruleus</i>	2	3	0	5
15	Wall's Sind Krait	<i>Bungarus sindanus walli</i>	0	2	0	2
16	Spotted Black Terrapin	<i>Geoclemys hamiltonii</i>	0	0	1	1
17	Indian Black Turtle	<i>Melanochelys trijuga</i>	0	0	2	2
18	Deccan Softshell Turtle	<i>Nilsonia leithii</i>	0	0	2	2
19	Bamboo Pit Viper	<i>Trimersurus gramenus</i>	0	0	2	2
20	Red-eared Terrapin	<i>Trachemys scripta</i>	7	11	0	18
		Total	29	51	26	106

[B] BIRDS						
Sr. No.	COMMON NAME	SCIENTIFIC NAME	M	F	U	TOTAL
1	Indian Peafowl	<i>Pavo cristatus</i>	6	1	0	7
2	Budgerigar	<i>Melopsittacus undulates</i>	15	11	14	40
3	Cockatiel	<i>Nymphicus hollandicus</i>	11	8	6	25
4	Alexandrine Parakeet	<i>Psittacula eupatria</i>	4	1	1	6
5	Rose ringed Parakeet	<i>Psittacula krameri</i>	3	5	0	8
6	Plum-Headed Parakeet	<i>Psittacula cynocephala</i>	2	0	0	2
7	Spotbill Duck	<i>Anas poecilorhyncha</i>	0	1	0	1
8	Barn Owl	<i>Tyto alba</i>	0	0	5	5
9	Pariah Kite	<i>Milvus migrans</i>	0	0	4	4
		Total	41	27	30	98

SUMMARY OF DEATH REPORT

Date	Species	Sex	Age	Cause of Death	Method of Disposal
11-Apr-17	Marsh Crocodile	U	Juv	Pneumonia	Incineration
29-May-17	Marsh Crocodile	U	Juv	Enteritis & Pneumonia	Incineration
06-Jun-17	Shikra	U	Adult	Salinity	Incineration
23-Jun-17	Spot-billed Duck	M	Adult	Diarrhea	Incineration
31-Jul-17	Indian Peafowl	M	Adult	Enteritis	Incineration
25-Nov-17	Indian Peafowl	U	Juv	Diarrhea	Burial
30-Jan-18	Deccan Soft-shell Turtle	M	Adult	Urinary Tract Infection	Burial

STOCK POSITION

Category	Closing stock of previous year	Births	Acquisition	Death	Disposal	Closing stock of this year
Birds	97	05	01	04	01	98
Reptiles	135	01	00	03	27	106
Total	232	06	01	07	28	204

RESCUE AND REHABILITATION

Sr. No.	Animal Name	Acquisitions			Disposals			Deaths			Closing Stock on 31/03/2018				
		M	F	U	M	F	U	M	F	U	M	F	U	T	
1	Indian Peafowl (<i>Pavo cristatus</i>)*	1	0	0	1	0	0	0	0	0	0	0	0	0	0
2	Rhesus Monkey (<i>Macaca mulatta</i>)	1	0	0	1	0	0	0	0	0	0	0	0	0	0
3	Jungle Cat (<i>Felis chaus</i>)	0	1	0	0	1	0	0	0	0	0	0	0	0	0
4	Glossy Ibis (<i>Plegadis falcinellus</i>)**	0	0	1	0	0	0	0	0	1	0	0	0	0	0
5	Zebra Finches (<i>Taeniopygia guttata</i>)	0	0	5	0	0	0	0	0	0	0	0	5	5	5
6	African Love Bird (<i>Agapornis roseicollis</i>)	0	0	2	0	0	0	0	0	1	0	0	1	1	1
7	Monitor Lizard (<i>Varanus bengalensis</i>)	1	1	0	1	1	0	0	0	0	0	0	0	0	0
	Total	3	2	8	3	2	0	0	0	2	0	0	6	6	6

* Indian Peafowl was also reported in quarterly inventory previously submitted. Kindly consider it only in Rescued animal list and not the Zoo inmate.

** Glossy Ibis died due to traumatic and hemorrhagic shock and injury on 28/08/2017.

REQUISITE COLLECTION

[A] REPTILES

Sr. No.	COMMON NAME	SCIENTIFIC NAME	Proposed Collection			
			M	F	U	T
1	Gharial	<i>Gavialis gangeticus</i>	2	4	0	6
2	Python Indian	<i>Python molurus</i>	2	2	0	4
3	Python Reticulated	<i>Python reticulatus</i>	2	2	0	4
4	Anaconda	<i>Eunectes murinus</i>	2	2	0	4
5	Yellow Monitor	<i>Varanus salvater</i>	2	2	0	4
6	Monitor Lizard	<i>Varanus bengalensis</i>	2	2	0	4
7	Green Iguana	<i>Iguana iguana</i>	2	2	0	4
8	Indian Chameleon	<i>Chameleon zeylonicus</i>	3	3	0	6
9	Whitaker's Boa	<i>Gongylophis whitekarii</i>	2	2	0	4
10	Montane Trinket	<i>Coelognathus helena monticollaris</i>	3	3	0	6
11	Ornamental Snake	<i>Chrysopelia ornata</i>	2	2	0	4
12	Bronze-back Tree Snake	<i>Dendrolephis tristis</i>	2	2	0	4
13	Royal Snake	<i>Spalerosophis atriceps</i>	2	2	0	4
14	Banded Krait	<i>Bungarus fasciatus</i>	2	2	0	4
15	Cat Snake Common	<i>Boiga trigonata</i>	3	3	0	6
16	Cat Snake Forsten's	<i>Boiga forstenii</i>	2	2	0	4
17	Cobra Monocled	<i>Naja kaouthia</i>	2	2	0	4
18	Saw-scaled Viper	<i>Echis carinatus</i>	2	2	0	4
19	Elongated Tortoise	<i>Indotestudo elongata</i>	2	4	0	6
20	Travancore Tortoise	<i>Indotestudo travancorica</i>	2	4	0	6
21	Spotted Terrapin	<i>Geoclamys hamiltonii</i>	4	8	0	12
22	Eastern Hill Terrapin	<i>Melanochelys tricarinata</i>	4	8	0	12
23	Indian Terrapin	<i>Melanochelys trijuga</i>	3	6	0	9
24	Deccan Flapshell Turtle	<i>Nilsonia leithii</i>	2	4	0	6
25	Tent Terrapin	<i>Pangushura tecta</i>	6	12	0	18
26	Narrow-mouthed Softshell Turtle	<i>Chitra indica</i>	4	4	0	8
27	Indian Roofed Turtle	<i>Pangushura tenctoria</i>	6	12	0	18
28	Assam Roofed Turtle	<i>Pangshura sylhetensis</i>	5	5	0	10

[B] BIRDS

Sr. No.	COMMON NAME	SCIENTIFIC NAME	Proposed Collection			
			M	F	U	T
1	Pelican	<i>Pelecanus onocrotalus</i>	3	3	0	6
2	White Ibis	<i>Threskiornis melanocephalus</i>	3	3	0	6
3	Grey Heron	<i>Ardea cineraria</i>	2	2	0	4
4	Painted Stork	<i>Mycteria leucocephala</i>	3	3	0	6
5	Spoonbill	<i>Platalea leucorodia</i>	3	3	0	6
6	Comb Duck	<i>Sarkidiornis melanotos</i>	5	5	0	10
7	White-breasted Water hen	<i>Amaurornis phoenicurus</i>	3	3	0	6
8	Dabchick	<i>Tachybaptus ruficollis</i>	5	5	0	10
9	Black-necked Stork	<i>Ephippiorhynchus asiaticus</i>	2	2	0	4
10	Night Heron	<i>Nycticorax nycticorax</i>	5	5	0	10
11	Large Egret	<i>Ardea alba</i>	2	2	0	4
12	Common Teal	<i>Anas crecca</i>	5	5	0	10
13	Shoveller	<i>Anas clypeata</i>	5	5	0	10
14	Ruddy Shelduck	<i>Tadorna ferruginea</i>	5	5	0	10

INCOME, EXPENCES AND VISITORSHIP

The zoo remains closed for visitors on every Tuesday. It is open to the public from 10:30 a.m. to 6:00 p.m. It is extended during summer vacation from 10:30 am to 7.00 pm.

Entry Fee Adults : Rs. 10:00 (Ten Rupees).

 Children : Rs. 05:00 (Five Rupees).

For renovation and development activities; Zoo has been closed for public since, 26th December 2017.

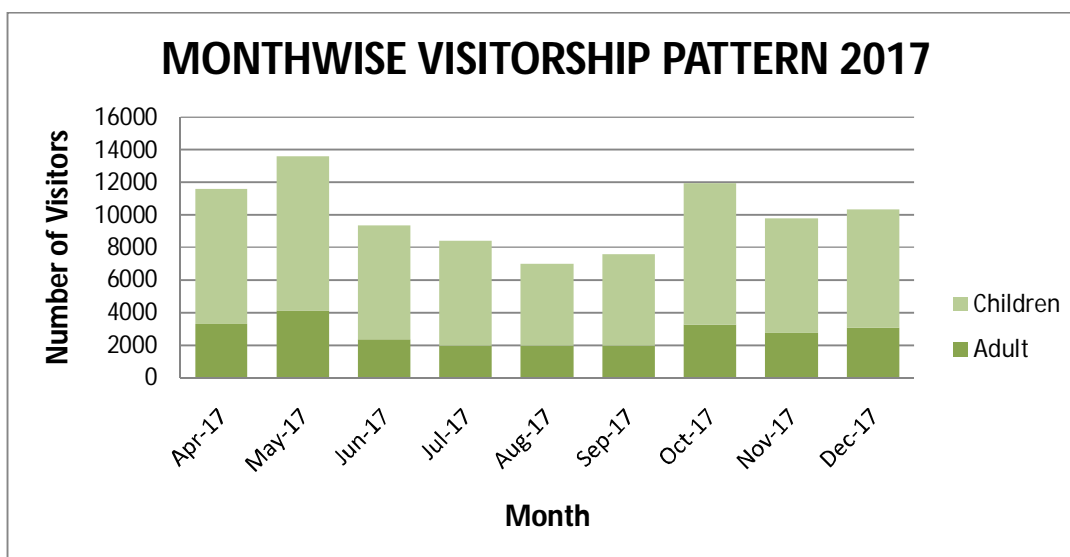
Visitor-ship

Month	Adult	Children	Total
Apr-17	3297	8251	11548
May-17	4105	9492	13597
Jun-17	2321	7044	9365
Jul-17	1974	6415	8389
Aug-17	1968	5003	6971
Sep-17	1968	5601	7569
Oct-17	3250	8694	11944
Nov-17	2728	7040	9768
Dec-17	3082	7233	10315
Total	24693	64773	89466

Annual Visitor-ship during last 3 years

Year	Adults	Children	Total
2015 – 2016	1,30,809	54,300	1,85,109
2016- 2017	1,10,099	42,418	1,52,517
2017- 2018 (*Till Dec 2017)	24,693	64,773	89,466
Free Entry on Nag-panchami Festival for ladies only			
Free Entry for Physically Disabled persons.			

ANNUAL VISITORSHIP PATTERN



Income during last three years	
2015 – 2016	Rs. 15,79,590/-
2016 – 2017	Rs. 13,13,080/-
2017 – 2018 (*Till Dec 2017)	Rs. 07,71,195/-

BUDGET AND FINANCES

A budget of Rs. 7 Cr was sanctioned for the financial year 2017-18 for the Developmental Works. The Phase II construction includes entrance and administrative block, Chelonia section and Crocodile sections are included. Construction of Wetland aviary, Reptiles of Ghats, Veterinary hospital and Interpretation centre are part of Phase III.

The recurring budget designated for the park was Rs. 15 Lakhs of which Rs. 7,47,822/- were utilized.

COMPLIANCE REPORT

(Ref: F.No.19-127/93-CZA(180)(Vol.III)(NS)/912/2016 Dated 20/06/2016 Subjected as Renewal of recognition to Nisargakavi Bahinabai Choudhary Pranisangrahalaya, Pimpri Chinchwad, Maharashtra under Section 38H of the Wildlife (Protection) Act, 1972 beyond the period 31.1.2015 Reg...)

Sr. No.	Norm. No	Condition Stipulated	Time period to Comply	Present Status	Remark
1. General Requirements					
1.	1.9	The domestic duck housed along with Spot-billed ducks and flap shell turtle should be removed immediately.	With immediate Effect	All domestic Ducks have been removed.	Complied.
2. Administrative & staffing pattern					
2.	2.1	The zoo should have full-time officer in charge, veterinary officer, and keepers.	Six months	A full time Office in charge 'Curator' has been appointed on honorarium basis since January 2017. Similarly, A full time Veterinarian and Biologist cum Education Officer have been appointed on honorarium basis from 1 st August 2017.	Complied. Appointment of permanent staff for zoo is under process and shall be appointed following the Recruitment Rules.
3. Development and planning					
3	3.1	The CZA had approved the Master (Layout) Plan of the zoo in 2015 itself, however the development work at the zoo , as per the approved master (layout) plan has not been started. The same should be expedited.	Six months.	The phase-I is complete and is verified by MSZA, Development of Phase – II & III has been undertaken simultaneously. Necessary budgetary provision is available for this work. Construction of Crocodile section, Aquatic Aviary, Chelonia Section and Reptiles of Ghats are all under construction.	The Zoo has been closed for visitors since Dec 2017. All efforts are being made to accomplish the development in fastest time. It is targeted to complete the civil and infrastructure developments of the zoo by May 2018.
4	3.8	The Zoo has received and housed the healthy rescued animals for the life time care. It is suggested that the animals which are fit to be released in the wild, should be released immediately under the guidance and intimation	With immediate Effect	All the rescued birds and animals have been released with prior permission from the Forest Department.	Complied. Considering the space constrains and due to ongoing development activities, No rescued animals are accepted at the zoo.

		to the CWLW of Maharashtra. The rescued Barn Owl and Black kite should be released immediately after observation of due protocol.			
4. Animal housing, display of animals and animal Enclosure					
5.	4.6	The existing mugger enclosure should be provided with sufficient sand for basking of the animals as a substrate. The depth of water should also be increased.	With immediate Effect	The Muggers from the old enclosure have been shifted to a transit housing developed within the premises. This cage is spacious with proper sand substrate and deeper aquatic body.	Construction of naturalistic Crocodile enclosure is in the final stage. This enclosure is being constructed in accordance with the approved master plan.
6.	4.6	The Zoo has housed the Sand boa with gravel as substrate; the same should be changed immediately with soil.	With immediate Effect	Complied. The Sand Boa has been provided with suitable substrate.	Complied
7.	4.6	The Indian rock python housed at the Zoo should be provided with substrate.	With immediate Effect	Complied. The Python was provided with suitable substrate.	Complied.
8	4.10	All animals housed at Zoo should be provided with sign boards containing the information about the species exhibited.	With immediate Effect	Appropriate signage information has been provided.	New tri-lingual signages for all exhibits are proposed under new development.
5. Upkeep and healthcare of animals					
9.	5.10	All Schedule I and II housed at the Zoo should have individual History sheet.	With immediate Effect	The list of the schedule I and II is prepared and History sheet is maintained in prescribed format.	Complied.
6. Postmortem and disposal of carcass of animals					
10.	7.1 & 2	The post-mortem of each animal that dies in Zoo should be conducted and report should be kept in the format as prescribed by the CZA	With immediate Effect	In case of Schedule I and II animals, Post-mortems were conducted at State Animal Husbandry Dept. After appointment of full time zoo Veterinarian, all PM's are performed by him.	All the post-mortems of recent deaths in the zoo have been maintained in CZA prescribed format.
Other Observations					
11.		The keepers handling Live animals should be permanent staff of the Zoo, well versed in upkeep of the animals; outsourced staff should not be involved in animal management.	With immediate Effect	Recruitment of Animal Keeper is under process.	No outsourced person is involved in animal handling.

12.	The Biologist deputed should be deputed full time with the Zoo.	With immediate Effect	A full time Biologist cum Education Officer with appropriate educational qualification has been appointed on honorarium basis from 1 st August 2017.	Complied.
13.	Efforts should be made to immediately relocate all reptiles to recognized Zoo, till the Zoo constructs new reptile house.	Three months	The correspondence is made with Rajiv Gandhi Zoo for this purpose. The same correspondence has been acknowledged to MSZA and CZA for information and necessary permissions.	All possible efforts are being made to provide naturalistic and spacious exhibits for the reptiles in existing facility.
14.	The reptile house as approved by the CZA should be constructed immediately to house all reptiles properly.	With immediate Effect	Phase II of construction is in progress. Construction of Reptile House has been given the priority.	Necessary Budgetary provisions are available and the works are under progress.

FREE RANGING WILDLIFE

LIST OF MAMMALS

Sr. No.	English Name	Marathi Name	Scientific name
1	Common Mongoose	Mungus	<i>Herpestes edwardsi</i>
2	Palm Squirrel	Khar	<i>Funambulus palmarum</i>
3	Flying Fox	Watvaghul	<i>Pteropus giganteus</i>
4	Rat	Undir	<i>Rattus rattus</i>

LIST OF BIRDS

No.	Vernacular Name (Marathi)	Common English Name	Scientific Name
1	Ghar	Pariah Kite	<i>Milvus migrans</i>
2	Shikra	Shikra	<i>accipiter badius</i>
3	Titvi	Red-wattled Lapwing	<i>Vanellus indicus</i>
4	Parva	Blue Rock Pigeon	<i>Columba livia</i>
5	Hola	Little Brown Dove	<i>Streptopelia senegalensis</i>
6	Popat	Rose-ringed Parakeet	<i>Psittacula krameri</i>
7	Kokila	Koel	<i>Eudynamis colopacea</i>
8	Bharadwaj	Crow Pheasant	<i>Centropus sinensis</i>
9	Gavhani Ghubad	Barn Owl	<i>Tyto alba</i>
10	Pingalya	Spotted Owlet	<i>Athene burma</i>
11	Pakoli	House swift	<i>Apus affinis</i>
12	Khandya	White-breasted kingfisher	<i>Halcyon smyrnensis</i>
13	Bandya	Small Blue kingfisher	<i>Alcedo atthis</i>
14	Veda Raghu	Green Bee-eater	<i>Merops orientalis</i>
15	Shingchocha	Grey Hornbill	<i>Tocus birostris</i>
16	Tambat	Coppersmith Barbet	<i>Megalaima haemacephala</i>
17	Pakoli	Dusky Crag Martin	<i>Hirunda concolor</i>
18	Bhingari	Red-rumped Swallow	<i>Hirundo rustica</i>
19	Tarvali Bhingari	Wire-tailed Swallow	<i>Hirundo smithii</i>
20	Haladya	Golden Oriole	<i>Oriolus oriolus</i>
21	Khatik	Rufous-backed Shrike	<i>Lanus schach</i>
22	Kotwal	Black Drongo	<i>Dicrurus adsimilis</i>
23	Salunkhi	Common Myna	<i>Acridotherus tristis</i>
24	Bhoradi	Brahmini Myna	<i>Sturnus pagodarum</i>
25	Kawla	House Crow	<i>Corvus splendens</i>
26	Domkawala	Jungle Crow	<i>Corvus macrorhynchos</i>
27	Subhag	Iora	<i>Aegithina tiphia</i>
28	Bulbul	Red-vented Bulbul	<i>Pynonotus cafer</i>
29	Satbhai	Large Grey Babbler	<i>Turdoides malcolmi</i>

30	Nachara	White-browed Fantail	<i>Rhipidura aureola</i>
31	Vatvatya	Ashy Prinia	<i>Prinia socialis</i>
32	Vatvatya	Plain Warbler	<i>Plain subflava</i>
33	Shimpi	Tailor Bird	<i>Orthotomus sutorius</i>
34	Dayal	Magpie Robin	<i>Copsychus saularis</i>
35	Chirak	Indian Robin	<i>Saxicoloides fulicata</i>
36	Thirthira	Black Redstart	<i>Phaenicurus ochruros</i>
37	Fultochoya	Tickel'IsFlowerpecker	<i>Dicaeum erythrorhynchos</i>
38	Gangara	Great Tit	<i>Parus major</i>
39	Karada Dhobi	Grey Wagtail	<i>Motacilla cinerea</i>
40	Pandhara Dhobi	White Wagtail	<i>Motacilla alba</i>
41	Shinjir	Purple Sunbird	<i>Nectarinia asiatica</i>
42	Shinjir	Purple-rumped Sunbird	<i>Nectarinia zeylonica</i>
43	Chimani	House Sparrow	<i>Passer domesticus</i>
44	Chashmewala	White-eye	<i>Zosterops palpebrosa</i>
45	Sugaran	Baya Weaver Bird	<i>Ploceus phillippinus</i>
46	Munia	Spotted Munia	<i>Lonchura punctulata</i>
47	ChanderiMunia	Silverbill	<i>Lonchura malabarica</i>

LIST OF REPTILES AND AMPHIBIANS

Sr. No.	English Name	Marathi Name	Scientific name
1	Indian Rat Snake	Dhaman	<i>Ptyas mucosa</i>
2	Trinket Snake	Taskar	<i>Coelognathus helena</i>
3	Wolf Snake	Kavdya	<i>Lycodon aulicus</i>
4	Common Kukri Snake	Kukri	<i>Oligodon arnensis</i>
5	Striped Keelback	Naneti	<i>Amphiesma stolatum</i>
6	Worm Snake	Wala	<i>Indotyphlops braminus</i>
7	House Gecko	Pal	<i>Hemidactylus flaviviridis</i>
8	Brook's Gecko	Pal	<i>Hemidactylus brookii</i>
9	Bark Gecko	Pal	<i>Hemidactylus leschenaultii</i>
10	Common Skink	Sapsuruli	<i>Eutropis carinata</i>
11	Common Toad	Bhek	<i>Duttaphrynus melanostictus</i>
12	Cricket Frog	Beduk	<i>Fejervarya sp.</i>
13	Ornate Frog	Beduk	<i>Microhyla ornata</i>
14	Common Tree Frog	Beduk	<i>Polypedates maculatus</i>
15	Indian Skittering Frog	Beduk	<i>Euphlyctis cyanophlyctis</i>

LIST OF TREES

Sr. No.	English Name	Marathi Name	Scientific name
1	Australian Acacia	Australian babul	<i>Acacia auriculiformis</i>
2	Subabul	Subabul	<i>Leucaena leucocephala</i>
3	Acacia	Babul	<i>Acacia nilotica</i>
4	Indian lilac/ Neem	Neem	<i>Azadirachta indica</i>
5	Sisam	Sisam	<i>Dalbergia sisoo</i>
6	Soapnut	Ritha	<i>Sapindus laurifolia</i>
7	Spathodia	Pichkari	<i>Spathodia campanulata</i>
8	Eucalyptus	Nilgiri	<i>Eucalyptus sp.</i>
9	Plumeria	Chapha	<i>Plumeria alba</i>
10	Silk Cotton Tree	Kate Sawar	<i>Bombax ceiba</i>
11	Night-Flowering Jasmine	Parijat	<i>Nyctanthes arbor-tristis</i>
12	Tikoma	Songhanti	<i>Tecoma stans</i>
13	Banyan	Vad	<i>Ficus benghalensis</i>
14	Variegated Banyan	Variegated Vad	<i>Ficus benghalensis var.</i>
15	Curry leaf	Kadipatta	<i>Murraya koenigii</i>
16	Acacia	Hivar	<i>Acacia leucophloea</i>
17	Peepal	Pimpal	<i>Ficus religiosa</i>
18	Silver Oak	Suru	<i>Grevillea robusta</i>
19	Bottle Palm	Bottle Palm	<i>Roystonea regia</i>
20	Areka Palm	Supari	<i>Areca sp.</i>
21	Coconut	Naral	<i>Cocos nucifera</i>
22	Mast Tree	Ashok	<i>Polyalthia longifolia</i>
23	Weeping Fig	Pimparni	<i>Ficus benjamina</i>
24	Indian laurel	Nandrukh	<i>Ficus microcarpa</i>
25	Rubber tree	Rubber tree	<i>Ficus elastica</i>
26	Golden Bamboo	Pivla Bamboo	<i>Bambusa aurnatiana</i>
27	Green Bamboo	Kalak	<i>Bambusa vulgaris</i>
28	Coral tree	Pangara	<i>Erythrina indica</i>
29	Verigated Pangara	Pangara	<i>Erythrina variegata</i>
30	Gulmohar	Gulmohor	<i>Delonix regia</i>
31	Rain Tree	Vilayati Shirish	<i>Samanea saman</i>
32	Indian Cork	Buch	<i>Millingtonia hortensis</i>
33	Casurina	Suru	<i>Casuarina equisetifolia</i>
34	Indian Tulip Tree	Bhend	<i>Thespesia populnea</i>
35	Bottle Brush	Bottle Brush	<i>Callistemon lanceolatus</i>
36	Copper Pod	Tambra-Shingi	<i>Peltophorum ferrugineum</i>
37	Camel's Foot Tree	Kanchan	<i>Bauhinia sp.</i>
38	Christmas Tree	Silver Oak	<i>Araucaria sp.</i>
39	Sandalwood	Chandan	<i>Santalum album</i>
40	Black Acacia	Khair	<i>Acacia catechu</i>
41	Jamun	Jambul	<i>Syzygium cuminii</i>

42	Singapore Cherry	Cherry	<i>Muntingia calabura</i>
43	Guava	Peru	<i>Psidium guajava</i>
44	Mango	Amba	<i>Mangifera indica</i>
45	Custard Apple	Sitafal	<i>Annona squamosa</i>
46	Papaya	Papai	<i>Carica papaya</i>
47	Bel Tree	Bel	<i>Aegle marmelos</i>

LIST OF BUSHES

Sr. No.	English Name	Marathi Name	Scientific name
1	China Rose	Jaswand	<i>Hibiscus sp.</i>
2	Nerium	Kaner	<i>Nerium odorum</i>
3	Jasmanum	Mogra	<i>Jasminum sp.</i>
4	Cana	Kardal	<i>Canna sp,</i>
5	Vinca	Sadafuli	<i>Vincarosea</i>
6	Thuja	Morpankhi	<i>Thujaoccidentalis</i>
7	Holy Basil	Tulas	<i>Ocimum sanctum</i>
8	Cycas palm	Cycas	<i>Cycas sp.</i>



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