

NANDANAM



Nandankanan Biological Park
NewsLetter

OCT-DEC 2022
VOL.1 (ISSUE-III)



From the Director's Desk

Greetings to you from Nandankanan family. It gives me great pleasure the third quarterly newsletter of this year. During this quarter 63rd Foundation Day of Nandankanan was celebrated. On this occasion, renovation of children's park, nursery for hand rearing of animal babies and operation theater for sick captive animal was inaugurated. In addition to this Slender tailed meerkat was released to enclosure which was brought under animal exchange programme from Mysuru zoo. Nandankanan creates history by receiving highest number of visitor's footfall on Christmas day. The support of patrons in the form of animal adoption continued during this period also. This generous support goes long in ensuring welfare of captive animals and promoting in wildlife conservation. During the quarter we have successfully organized on-line quiz, on the spot quiz, painting competition on different themes, bird walk, keepers talk, tree walk, herping, butterfly and moth walk and nature trail were organized on the eve of 68th Wildlife Week. We had many new births in the zoo during this period. I hope to share more with you in the next quarter.

Team Nandankanan Zoo wishes everyone a joyful 2023!

Dr Manoj V. Nair, IFS
Director, Nandankanan Biological Park

Editorial Board

Dr Manoj V. Nair, IFS
Director, Nandankanan Biological Park

Dr Sanjeet Kumar, IFS
Deputy Director, Nandankanan Zoological Park

Dr Sarat Kumar Sahu
Block Veterinary Officer, Nandankanan Zoological Park

Dr Rajesh Kumar Mohapatra
Biologist, Nandankanan Zoological Park

Sri Milan Kumar Panda
Education Officer, Nandankanan Zoological Park

ABOUT US

Nandankanan Zoological Park is one of the finest large zoos of India established on 29th December, 1960. The State Botanical Garden with an area of 75 hectares and adjoining two important wetlands Kanjia lake (66 ha.) and Kiakani lake (25 ha) make the Nandankanan an ideal centre for Research, Education, Conservation breeding. The Zoological Park together with Kanjia lake and Botanical Garden has been declared as Nandankanan Wildlife Sanctuary over an area of 4.37 sq.km. (Notified on 3rd August, 1979). The park is under the management of the Government of Odisha, Forest Environment & Climate Change Department and followings the norms and guidelines laid by Central Zoo Authority, New Delhi, Govt of India.

Mission

To achieve the distinction of an outstanding zoo through World Class Conservation, Education, Research and Exciting visitor experiences by connecting people to biodiversity conservation.

Vision

To strengthen the efforts in conservation of biodiversity of the region through ex-situ conservation linked with in-situ practices.

Glimpse Of Important Happening

63rd Foundation Day



The 63rd Foundation Day of Nandankanan Zoological Park was celebrated inside the park on 29th December, 2022 at 10:30 am. Shri Sushil Kumar Popli, IFS, PCCF (WL) & CWLW presided the meeting. Sri Pradip Kumar Amat, Hon'ble Minister, Forest, Environment & Climate Change, Govt. of Odisha graced the occasion as Chief Guest. Sri Debidutta Biswal, IFS, PCCF & HOFF, Odisha and Sri Suresh Kumar Routray, Hon'ble MLA, Jatni graced the occasion as Guest of Honour. Dr Manoj V. Nair, IFS, Director, Nandankanan Biological Park given the key note address and Dr Sanjeet Kumar, IFS, Deputy Director given the vote of thanks. The best workers of Nandankanan were rewarded by the Guests for their tremendous works. Annual Report 2021-22, Eco-calendar-2023 and other publications were released on the occasion. The celebration was attended by the Ex-Directors of Nandankanan Zoological Park, Senior Forest Officers of the state, NGOs and eminent personalities of the State, Researchers and academicians, Members of Technical Committee, Health Committee of Nandankanan Zoological Park, Representatives from Print & Electronic media, local peoples and staff members of the park.

Children's Park



The children's park is situated near fountain square of Nandankanan Zoological Park with area of 16000 sq ft. Children Park has renovated with beautiful landscaping & new Play

equipments are such as-Swing-3nos, Slider-2nos, Merry-Go-ground-1no, Spring Rider-3nos, Double see-saw-1no, Air walker-1no, Pendulum-1no, Trampoline(10')-1no, ABS Trainer-1no, Spinner-1no & Multi-Play station-1no. For maintaining cleanliness, ten nos of dustbins were fixed at different points of the park. 13 nos. of Sit outs are placed at different places of parks for sitting purpose. Different informative signages are given like birds of Nandankanan, State symbols of Odisha, Tree signages etc. for giving better information to children.

Nursery for Hand Rearing of animal babies



Nandankanan zoo receives orphaned and rescued wild animal babies from all across the state on regular basis for their hand raising and rehabilitation. Animal babies of the zoo animals also require bottle feeding due to mother rejection and in health issues. 'Nursery for hand rearing of animal babies' is a centre categorically designed to cater all these needs. The centre has the facility for the animal keeper to stay inside for rearing of new-born round the clock. It has one milk preparation area, one neonatal ICU for sick neonates, separate cells for carnivore, herbivore and primate babies. The centre is attached to five small closed roof paddock areas where the animal babies can have exercise and access to sunlight. This fully air-conditioned facility will definitely boost our efforts in rearing rescued hapless neonates.

Operation Theater



Nandankanan has always tried to provide best healthcare facility for its denizens. The new 'Operation theatre' has all advanced facilities for surgical intervention of sick captive animals. The centre has facilities for gaseous anaesthesia, oxygen supply, patient monitor, ventilator facility, ultrasonography, electrocautery system for bloodless surgery. The centre is fully air conditioned and fitted with ultraviolet lights for effective disinfection. It has all advanced instruments required for safe and successful surgery to take our healthcare facility to next level.

Release of new species



The meerkat is a small mongoose found in Southern Africa. It is characterized by broad head, large eyes, pointed snout, long legs, a thin tapering tail and brindled coat pattern. Recently this species was brought under Animal exchange programme from Mysuru zoo.

Visitors During the Quarter (October 2022- December, 2022)

Nandankanan Zoological Park and State Botanical Garden had received 12,65,826 visitors and 50,263 visitors respectively between 01st October, 2022 to 31st December, 2022.

Nandankanan received 46148 from Nandankanan Zoological Park & 5398 from State Botanical Garden, all time highest number of visitor's footfall on Christmas day on 25.12.2022.



PASSIONATE GUARDIANS Animal Adopted During the Quarter (October 2022- December, 2022)

Sl. no	Name of the persons/institutions	Details
1	Sripriya Maharana Bangalore, Karnataka, 560098	One no. Of Indian peafowl 31-Dec-2022 to 30-Jun-2023
2	Sripriya Maharana Bangalore, Karnataka, 560098	Two no. Of Alexandrine parakeet 31-Dec-2022 to 30-Dec-2023
3	Priyanshu Chattopadhyay West Midnapore, West Bengal, 721305	One no. Of Spotted deer 25-Dec-2022 to 24-Dec-2023
4	Priyanshu Chattopadhyay West Midnapore, West Bengal, 721305	One no. Of Blossom headed parakeet 25-Dec-2022 to 24-Dec-2023
5	B Babitha Reddy Bhubaneswar, Khorda, Odisha, 751003	One no. Of White backed vulture 20-Dec-2022 to 19-Jan-2023
6	Rajat Nayak Hubli, Dharwad, Karnataka, 580030	One no. Of Black buck 13-Dec-2022 to 12-Jan-2023
7	Aishwarya Daftari Rajendra nagar, Delhi, 110060	One no. Of Ganges soft shell turtle 01-Dec-2022 to 28-Feb-2023

8	Abhishek Mohanty Rasulgarh, Bhubaneswar, Odisha, 751010	One no. Of Mandarin duck 27-Nov-2022 to 26-Feb-2023
9	Amod Inamdar Pune, Maharashtra, 411016	One no. Of Brahminy kite 23-Nov-2022 to 22-Dec-2022
11	Vaijayanthi Sandur Tangi, Bhubaneswar Khorda, Odisha, 751002	One no. Of White Tiger 19-Nov-2022 to 18-Dec-2022
12	Poornima Venkatesh Thane, Maharashtra, 400615	One no. Of Tiger (RBT) 11-Nov-2022 to 10-Feb-2023
13	Shreya Mitra Kolkata, West Bengal, 700008	One no. Of Spotted deer 11-Nov-2022 to 10-Feb-2023
14	Shruthi Chirila Hyderabad, Telangana, 500047	One no. Of Spotted deer 03-Nov-2022 to 02-Dec-2022
15	Debi Prasad Rout Jagatpur, Cuttack, Odisha, 754021	One no. Of Rose ring parakeet 02-Nov-2022 to 01-Dec-2022
16	Abhishek Pradhan Bharatpur, Bhubaneswar, Odisha, 751003	One no. Of African grey parrot 01-Nov-2022 to 30-Nov-2022
17	Dr. Ranjan Kumar Mishra Bangalore, Karnataka, 560093	One no. Of Yellow backed lorry 31-Oct-2022 to 30-Oct-2023
18	Kaushik	One no. Of Assamese macaque 25-Oct-2022 to 24-Nov-2022
19	Kaushik	One no. Of Indian tent turtle 25-Oct-2022 to 24-Jan-2023
20	Dr. Bipadataran Biswal Cuttack, Odisha, 753010	One no. Of Barbary Dove 23-Oct-2022 to 22-Nov-2022
21	Anwesha Panda Batamangala, Puri, Odisha, 756002	One no. Of Alexandrine parakeet 16-Oct-2022 to 15-Oct-2023
22	Rashmi Rekha Dash NEW Delhi 110092	One no. Of Hippopotamus 16-Oct-2022 to 15-Apr-2023
23	Sachin Yadav, Lucknow, Uttar Pradesh, 226020	One no. Of Common Mongoose 09-Oct-2022 to 08-Nov-2022
24	Amod Inamdar Pune, Maharashtra, 411016	One no. Of Barn owl 09-Oct-2022 to 08-Jan-2023
25	Anagha Inamdar Pune, Maharashtra, 411038	One no. Of Brown fish owl 09-Oct-2022 to 08-Nov-2022
26	Nikhil Kumar Agarwal Bhubaneswar, Khordha, Odisha, 751006	One no. Of Masked love bird 08-Oct-2022 to 07-Oct-2023
27	Lakshmi Gaur Gachibowli, Hyderabad, Telangana, 500032	One no. Of Asiatic Wild Dog 06-Oct-2022 to 05-Oct-2023
28	Ayantika swain Nandankanan, Khordha, Odisha, 754005	One no. Of Hippopotamus 04-Oct-2022 to 03-Jan-2023
29	Yamuna Sudheer Kadapa, Andhra Pradesh, 516002	One no. Of Rat snake 01-Oct-2022 to 30-Sep-2023
30	Yamuna Sudheer Kadapa, Andhra Pradesh, 516002	One no. Of Common Indian krait 01-Oct-2022 to 30-Sep-2023



Superannuating Staffs During the Quarter (October 2022- December, 2022)



Sri Pravat Bhoi
Zoo
Watcher
31.10.2022



Rambha Bhoi
Attendant
31.12.2022

Nandankanan Family offers their heartfelt gratitude and wish them a healthy and peaceful post-retirement life.

Zoo Education Programme during this Quarter

Sl. No	Date	Programme/Event	No. of Participants
1.	02.10.2022 to 08.10.2022	Celebration of 68 th Wildlife Week	>500
2.	11.10.2022	Orientation programme of B. Sc (Forestry) students from OUAT, Bhubaneswar	50
3.	12.10.2022	Orientation programme of B. Sc (Forestry) students from OUAT, Bhubaneswar	44
4.	13.10.2022	Visit Programme of officers' trainees of special foundation course from Gopabandhu Academy of Administration, Bhubaneswar	29
5.	19.10.2022	Visit programme of FROs trainees HPFA, Sundarnagar	44
6.	08.11.2022	Visit programme of IRTS probationers from Gopabandhu Academy of Administration, Bhubaneswar	07
7.	09.11.2022	Training programme of IFS officers from XIMB, Bhubaneswar	15
8.	11.11.2022	Visit programme of FROs trainees from Gujarat Forest Rangers College, Rajpipla	44
9.	12.11.2022	Orientation programme of students from KIIT animal & Environmental Welfare Society, Bhubaneswar	60
10.	12.11.2022	Visit programme of students from Saint Xavier High School, Cuttack	292
11.	15.11.2022	Visit programme of students from different school of Govt. of Odisha organized by SURAVI	1000
12.	15.11.2022	Visit programme of B.Sc. Zoology students from ISPAT College, Rourkela	31
13.	19.11.2022	Field visit of Integrated M.Sc. students from NISER, Bhubaneswar	60
14.	22.11.2022	Visit programme of students from Burdwan Holy Child School, Burdwan, West Bengal	100
15.	26.11.2022	Visit programme of FROs trainees from Telangana State Forest Academy, Dulapally	35
16.	26.11.2022	Field visit of students from B.Sc. Zoology of Ravenshaw University	15
17.	27.11.2022	Visit programme of IFS probationers from North Eastern State	32
18.	27.11.2022	Visit programme of students from IHSE, SOA, Bhubaneswar	300
19.	27.11.2022	Visit programme of Kendu Leaf seasonal staff, Odisha	100
20.	30.11.2022	Field visit of B.Sc. Nursing students from Hi-Tech Medical College, Bhubaneswar	52
21.	20.12.2022	Field visit of FROs trainees from Tamil Nadu Forest Academy, Coimbatore	47



OTHER EVENTS DURING THE QUARTER

Celebration of 68th Wildlife Week at
Nandankanan Zoological Park, Bhubaneswar

68th National Wildlife Week was celebrated at Nandankanan Zoological Park from 2nd October to 8th October, 2022. Nandankanan organized a series of events to mark this historic moment. On this occasion online quiz and painting competition on different themes were organized throughout the week on Nandankanan website i.e. www.nandankanan.org. More than 500 participants were participated in this programme. All the participants will be given e-certificate for their participation. In morning citizen science programme like bird walk, butterfly and moth walk, tree walk, herping and nature trail was conducted with college and university students to aware them about the facts and knowledge about the wildlife. On the spot quiz for visitors were conducted where prizes were distributed to winners which is highly appreciated by the participants. Keepers talk programme was organized to aware the visitors about how keeper take care of their animal in daily routine. A signature campaign was organized to create awareness on importance of Wildlife conservation amongst the visitors. These awareness and outreach activities were shared over print, electronic and social media platform for wider circulation.

Day-1 (02.10.2022, Sunday)

Online Painting on theme “Role of Birds in our Ecosystem”



Bird Walk



Keepers Talk – Animal in Focus: Tiger



Day-2 (03.10.2022, Monday)

Online Painting on theme “Wildlife of Odisha”



Keepers Talk – Animal in Focus: Indian Pangolin



Day-3 (04.10.2022, Tuesday)

Online Painting on theme “Why Insects matters?”



Tree Walk



Keepers Talk-
Animal in Focus:
Indian Vultures



Day-4 (05.10.2022, Wednesday)

Online Painting on theme “Wetland- a key habitat for habitat”



Herping



Keepers Talk – Animal in Focus: Gharial



Day-5 (06.10.2022, Thursday) Online Painting on theme “Forest Landscape”



Moth Walk



Keepers Talk – Animal in Focus: Mouse Deer



Day-6 (07.10.2022, Friday) Online Painting on theme “Reptiles in Indian culture”



Butterfly Walk



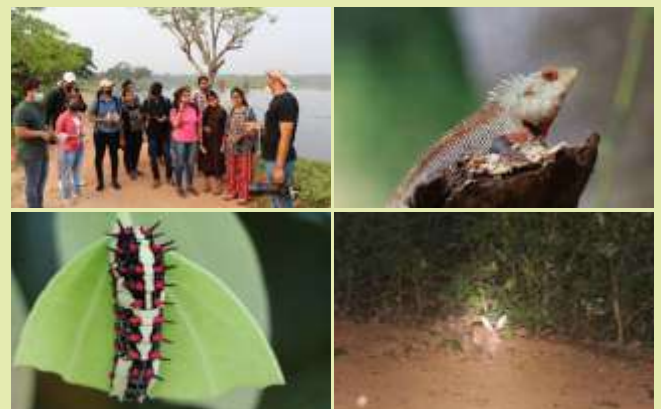
Keepers Talk – Animal in Focus: Chimpanzee



Day-7 (08.10.2022, Saturday) Online Painting on theme “Zoo- A centre for learning and Conservation”



Nature Trail



Keepers Talk – Animal in Focus: Hippopotamus



Internship Programme at Nandankanan

Nandankanan initiated internship programme for graduate and post graduate students with an objective to provide a platform to start and learn basic research in the field of zoo management and learn new skills of ex-situ and in-situ conservation techniques at Nandankanan. During fall and spring season, eight interns completed their work and submitted their thesis.



Sl. No	Name of the Interns	Topics
1.	Shivam Dash	Study on nesting behaviour of Asian Openbill storks in Nandankanan Wildlife Sanctuary, Odisha
2.	Soumya Ranjan Barad	Study on Green Good Deeds practiced at Nandankanan Zoological Park
3.	Soumya Prasanna Pradhan	Study on Economic valuation of Biodiversity conservation in Nandankanan Zoological Park
4.	Jeevan Jyoti Sundaray	Sustainable Development in Nandankanan and its overall effects on animal well-being.
5.	Keshari Prasad Mohanty	Assessment of invasive plant species diversity in Nandankanan Biological Park, Odisha
6.	Farhat Jahan	Phytosociology of invasive plant species of Nandankanan Biological Park, Odisha
7.	Mousumee Das	Study on spider prey selection of Mud-Dauber wasp
8.	S Shakti Swarup	Reptile Enrichment at Nandankanan Zoological Park

New Entrants to the Zoo Family Birth recorded in the zoo during this quarter (October 2022- December, 2022)

Sl. No	Date	Species	Number
1.	02.10.2022	Mouse Deer	1U/S
2.	07.10.2022	Blackbuck	1 U/ S
3.	12.10.2022	Blossom headed Parakeet	3 U/S
4.	15.10.2022	Manipuri Deer	1 U/ S
5.	16.10.2022	Monocellate Cobra	4 U/S
6.	20.10.2022	Blackbuck	3 U/S
7.	20.10.2022	Violet Turaco	1 U/ S
8.	28.10.2022	Monocellate Cobra	5 U/S
9.	28.10.2022	Binocellate Cobra	4 U/S
10.	30.10.2022	Budgerigar	5 U/S
11.	30.10.2022	Java Sparrow	5 U/S
12.	31.10.2022	Alexandrine Parakeet	2U/S
13.	31.10.2022	Indian Gaur	1U/S
14.	10.11.2022	Openbill Stork	4 U/S
15.	22.11.2022	Asiatic Lion	5U/S
16.	05.12.2022	Manipuri Deer	1U/S
17.	18.12.2022	Hog Deer	1U/S
18.	20.12.2022	Blackbuck	1U/S
19.	20.12.2022	Hog Deer	1U/S
TOTAL			50



05 lion cubs were born from lioness "Bijli"
on 22nd November, 2022

Garden in focus: Carnivorous plant garden



The garden established inside the state botanical garden covering an area of 800 sq ft is intended to exhibit carnivorous plants. Nandankanan is first of its kind to display carnivorous Plants. The garden has been developed initially to accommodate 4 species of carnivorous plants with provision of naturalistic landscape.

Species in focus: King Cobra (*Ophiophagus hannah*)



"Ophiophagus" is derived from Greek, meaning snake-eating and "hannah" is derived from the name of tree-dwelling nymphs in Greek mythology. The King Cobra is the World longest venomous snake and is India's national reptile. Although widely distributed, the population are fragmented and hence they are fairly uncommon in regions of occurrence. This species is found in variety of habitats ranging from pristine forests, degraded forests, mangrove swamps and even agricultural and fringe habitats. It is diurnal as it is known to hunt during the day. When alarmed the snake raises its body, spreads its "hood" and emits a low-pitched growl as a threat display, not unlike typical Cobras. King Cobra venom is neurotoxic i.e. affects the nervous system. Males are heavier and longer than females. It is the only species of snake where the females build a nest with leaf litter. Their diet consists of snakes, monitor lizard and small vertebrates like birds. Nandankanan has 02 male King Cobra for exhibits.

Healthcare Highlights

1. Management of open fracture in a black buck fawn



A forty days old black buck fawn suffered open fracture of left radius-ulna bone. It was unable to suckle its mother and moving with difficulty in three legs. A sharp edge of fractured bone was piercing skin out making the bone marrow exposed.

It was physically restrained, the sharp edge trimmed, fracture ends reduced and immobilized using plaster bandage having a window at the open wound site for regular dressing. Then, the fawn was left to its enclosure. It was seen walking comfortably and suckling milk from mother. The fawn was physically restrained every three days for dressing of the open wound, and the plaster bandage was removed after 35 days. The wound got completely healed and the fawn was able to walk with four legs.

2.Recurring umbilical hernia in a white tiger cub and its surgical management

A 5 months old white tiger cub 'Himanshi' was noticed with recurrence of umbilical hernia that was surgically corrected 2 months back. the cub was showing swelling at the umbilical region after taking buffalo meat. Surgical intervention was further carried out using anaesthetic mixture xylazine HCl and ketamine HCl administered intramuscularly. After freshening the hernia ring edges, the hernia was closed, non-absorbable synthetic polypropylene mesh was used as a supporting material to prevent further relapse of hernia. This time no further recurrence was noticed even after taking good meal.

3.Surgical management of tumour in a silver pheasant



A tumour like growth was seen at the left tarso-metatarsus region of one adult male silver pheasant that was continuously growing in size. The appetite and other activities of the bird were normal. Surgical excision of the tumour mass was carried out under general anaesthesia using tiletamine and zolazepam drug mixture. Bleeding was controlled by adrenaline-soaked cotton plug. The bird was kept under parenteral antibiotic and analgesic coverage for five days. Recurrence of tumour is not noticed till date and the bird is doing well.

Honored and Awards



Sri Rama Chandra Kandi, Forest Guard is awarded for their outstanding performance in Protection of Elephant and Human-Elephant conflict management by Save Elephant Foundation Trust Award 2022.



Dr Sanjeet Kumar, (IFS), Deputy Director, Nandankanan Zoological Park was honored by Ministry of Environment, Forest & Climate Change & Central Zoo Authority, New Delhi for successfully organized two days National Zoo Directors Conference, Bhubaneswar from 10th to 11th September, 2022.



Sri Prasanta Gouda



Sri Sunil Samal

Sri Prasanta Gouda, Animal Keeper & Sri Sunil Samal, Animal Keeper were appreciated by Ministry of Environment, Forest & Climate Change & Central Zoo Authority, New Delhi for successfully hand rearing of different new born animals.

Words from Distinguished Guests visited during the quarter

Visited the place after several years. As always, it was a pleasure to come to Nandankanan. The place is very well maintained and an excellent example of keeping the habitat for the flora and fauna. My compliments to the entire team.

Sunil Kumar Bansal
Director General of Police, Odisha
Date of Visit-02.10.2022

Fantastic experience. Very well maintained. Attracting a lot of visitors. Dr Sanjeet, Deputy Director showed us around. Extremely well versed even with the indicate details of the animals. Told him and his staff that they showed keep up the good work.

Justice (Rtd) Ranjan Gogoi
Former Chief Justice of India
Date of Visit-10.12.2022

Kindly send your feedback on

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Nandankanan Zoological Park

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