



ANNUAL REPORT

2023-24

TATA STEEL ZOOLOGICAL PARK



Tata Steel Zoological Society

Marine Drive Road, Near XLRL, P.O. Bistupur, Jamshedpur -831001 (Jharkhand)

JAMSHEDPUR. Email: tatasteelzoo@gmail.com

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REPORT OF THE OFFICER IN-CHARGE

Greetings to Zoo lovers and supporters from the Tata Steel Zoo Family!

It is a matter of great pleasure to share with you that the zoo has now started to implement the new master layout plan & will be complete the same by end of 2025.

In the first phase we have completed the Entry Plaza and Parking at the Marine drive road along with the Herbivore enclosure 25-B. This year we have constructed the glass view enclosure of Gharial, Mugger, Leopard and Striped Hyena.

The Gharial and Mugger enclosure were constructed with new concept and friendly to visitor, animals and nature by water conservation. The visitor can directly see the animals through glass view having bigger size water pool which is first time adopted in Tata Zoo. Tata Zoo has undertaken a unique eco-friendly initiative to conserve water by in-built water filtration unit to filter the pond water without use of chemicals that can be utilized up to 60 days with minimal wastage. This sort of enclosure with filtration facility in case of Gharial & Mugger is available in few zoos in the country.

The Striped Hyena & Leopard enclosure created with bigger space and facilities like glass view, keeper's room and having double Kraal. This year we have also constructed Central Treatment Area (zoo veterinary hospital) with facility of surgery, portable X-ray and ultrasonography machines and at the same time we will be able to keep animals to longer period if require.

By the end of the year 2024 we shall be able to construct Lion and Tiger enclosure at new place with better amenities. Leopard and Striped Hyena enclosure shall be completed and opened for the visitor display by the end of first quarter of FY 2024-25.

Our Zoo team is continuously working to improve the overall output like healthcare management, animal welfare and improved visitor amenities in the zoo. After the functioning of new central treatment area along with modern diagnostic equipment we shall be able to cater to better health care facilities of the zoo animal.

As today's responsibility of the zoo operator lies in, especially for zoos which fall under medium category, spreading of awareness and education to visitors and students not only providing the facility for recreation and fun but also providing knowledge and importance of wildlife and nature conservation. Our Research and education team is working very diligently to reach the student, researcher and visitors through online and offline mode to spread the knowledge and awareness.

On behalf of entire zoo staff, I express my sincere gratitude to Tata Steel Limited and Tata Steel Zoological Society Management for whole hearted support for taking the zoo at higher level.

Thanking all,



(Dr. Manik Palit)
Dy. Director & Officer In-Charge
Tata Steel Zoological Park, Jamshedpur

History of Tata Steel Zoological Park

Tata Steel Zoological Park (Zoo) which lies within the heart of the beautiful, green city of Jamshedpur (Jharkhand) was established in 1990. Zoo is operated by Tata Steel Zoological Society, an NGO fully supported by Tata Steel Foundation. The Society is registered under Societies Registration Act, Govt. of Jharkhand and as a 'Charitable' institution under section 12A of the Income Tax Act.

Zoo was formally opened for public visitation on 3rd March 1994. The Zoo is recognized as a 'Medium' category Zoo by Central Zoo Authority u/s 38H of the Wildlife (Protection) Act, 1972 vide letter No. 19-47/92-CZA (52)/ C.No.146960 dated 08.02.2021

The 30 hectares Zoo campus is located on the bank of river Subarnarekha a wetland famous for attracting large number of winter migratory bird species hence adding to the intrinsic value of fauna. The Zoo is being re-imagined as per an approved master layout plan, where animal exhibits have been thoughtfully positioned as per taxonomic classification to give the best immersive and naturalistic experience to the visitors with a lush green surrounding does justice to the prime goal of preserving wild animals and helping them propagate in captivity.

Our vision:

We envision a sustainable, healthy, and resilient Singhbhum landscape which supports the area's unique biodiversity, human communities, and culture.

Our objective:

Be a catalyst Zoo in strengthening the national efforts in conservation of the rich biodiversity of the country, particularly the fauna

Our Mission:

A living centre for education and science, committed to providing satisfying visitor experiences and inspiring passion to protect wildlife and habitats

ABOUT US-

ZOO OPERATIONS

The post of the full-time Director is lying vacant from 31st Oct 2023. Currently, Dy. Director Cum Vet. officer is the Officer-in-Charge of the Zoo for interim measures. A new Dy Director (G.A) was appointed on November, 15th 2023 and the functional area of Director is overseen by both the Dy. Directors jointly. Both the Dy. Directors report to Hon. Secretary, Tata Steel Zoological Society for all purposes.

Deputy Director (G.A) looks after the General Administration of Zoo which includes development planning, general administration, and compliance to various agencies including CZA, Forest Department, & Society Compliance etc. Apart from this he also looks after office administration, accounting, contracts, procurement, ticketing, meetings of the Subcommittees & Society, Zoo securities etc. For smooth discharge of responsibilities, Dy. Director (GA) is assisted by a team of office staff led by the office supervisor.

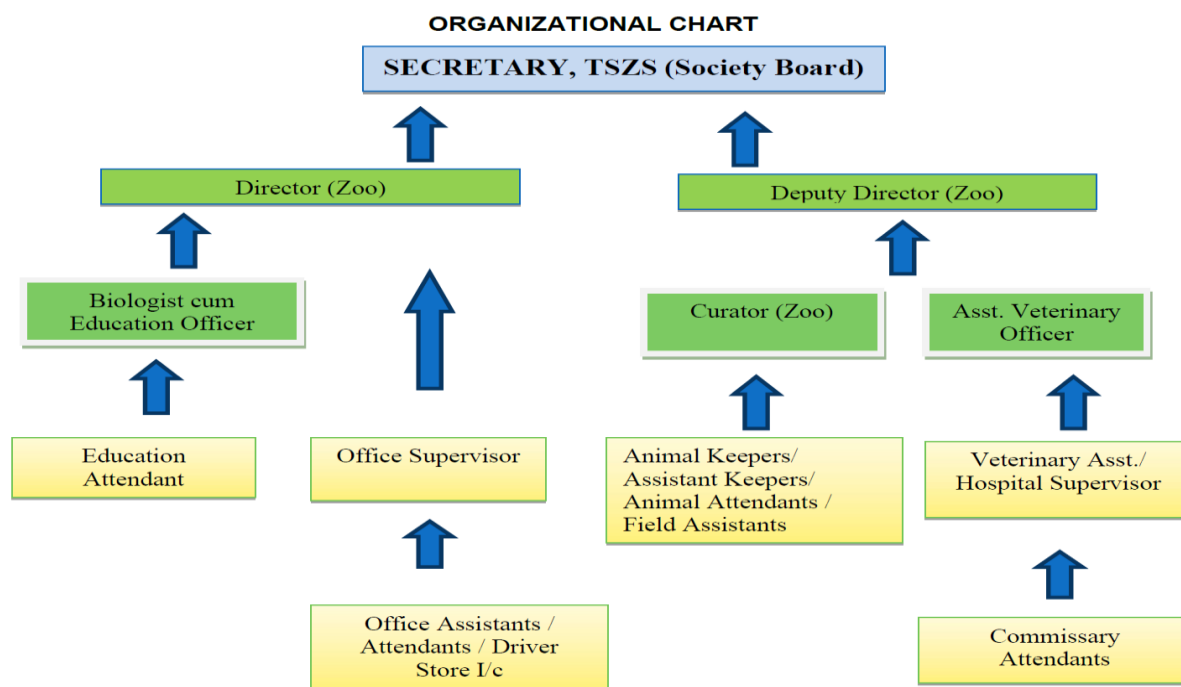
Deputy Director cum Vety, Officer looks after the health care of animals. Major activities of the team being health care of animals, food & nutrition & general hygiene of zoo campus. For smooth discharge of responsibilities Deputy Director Cum Vety Officer is assisted by an Asst. Veterinarian, a compounder and a nursing assistant.

Curator looks after day-to-day management of captive wild animals, maintenance of their enclosures, enrichment, feeding, disinfection & transportation, quarterly & annual animal inventory of animals and implementation of Seasonal management plan. For smooth discharge of responsibilities, Curator is assisted by two field Supervisors; a battery of animal Keepers, Field assistant and animal attendants. Curator reports to the Deputy Director for all purposes.

Biologist cum Education Officer (BEO) looks after the Zoo Biology, Education awareness & Research activities. Major work being recording of animal behaviour, maintaining studbooks for endangered animals, organizing education awareness programmes, running of the Nature Education Centre & library and Zoo website. BEO is also responsible for drafting Zoo annual report & press notes. BEO is assisted by a Sr. Assistant (Education), interns & volunteers and reports to the Director for all purposes.

| S.No. | Particulars | Information |
|--|--|--|
| Basic Information about the Zoo | | |
| 1 | Name of the Zoo | Tata Steel Zoological Park |
| 2 | Year of Establishment | 1994 |
| 3 | Address of the Zoo | Off Marine Drive Road, Near XLRI P.O.- Bistupur, Jamshedpur, East Singhbhum |
| 4 | State | Jharkhand |
| 5 | Telephone Number | 0657-2912181/2912125 |
| 6 | Fax Number | Nil |
| 7 | E-mail address | tatasteelzoo@gmail.com |
| 8 | Website | Under development |
| 9 | Distance from nearest | Airport: 145Km (Ranchi Airport) |
| | | Railway Station: 5Km (Tatanagar) |
| | | Bus Stand: 3Km (ISBT) |
| 10 | Recognition Valid upto (Date) | 19/08/2022 (Evaluation is done, waiting for the recognition letter from CZA end) |
| 11 | Category of zoo | Medium |
| 12 | Area (in Hectares) | 30 |
| 13 | Number of Visitors (2023-24) | Adult : 247671 |
| | | Children: 87167 |
| | | Total Indian: 334838 |
| | | Total Foreigners: Not reported |
| | | Total Visitors: 334838 |
| 14 | Visitors' Facilities Available in Zoo | Shelters; benches; drinking water kiosk; toilets; wheel chair; battery operated vehicles; food & refreshment stalls. |
| 15 | Weekly Closure Day of the Zoo | Monday |
| Management Personnel of the zoo | | |
| 16 | Name with designation of the Officer in-charge | Dr. Manik Palit, Deputy Director |
| | Name of the Deputy Director (GA) | Dr. Naim Akhtar (since 14 th Nov, 2023) |
| | Name of the Curator | Dr. Sanjay Kumar Mahato |
| | Name of the Biologist & Education Officer | Dr. Seema Rani |
| | Name of the Office Supervisor | Mr. Mritunjay Kumar |
| Owner / Operator of the Zoo | | |
| 17 | Name of the Operator | President, Tata Steel Zoological Society |

| S.No. | Particulars | Information |
|-------|--|---|
| 18 | Address of the Operator | At Tata Steel Zoological Park, Off Marine Drive Road, Near XLRI P.O.-Bistupur, Jamshedpur, East Singhbhum (Jharkhand) Pincode: 831001 |
| 19 | Contact details/Phone number of Operator | Mr. Amitabh, Secretary, TSZS & Head, Skills Development, Tata Steel Foundation, 3E Road, Northern Town, Jamshedpur-831001 Tel: 0657-6642438; Mb.8092084774 |
| 20 | E-mail address of Operator | c.amitabh@tatasteel.com |



HUMAN RESOURCE

| Sl. No. | Designation | Sanctioned post/posts | Names of the Incumbent |
|---|--|-----------------------|---|
| ADMINISTRATION | | | |
| 1. | Director | One | Mr. Bipul Chakrabarty (till 31 st Oct., 2023) |
| 2. | Deputy Director | One | Dr. Manik Palit (Veterinarian), Officer Incharge |
| 3. | Deputy Director (GA) | One | Dr. Naim Akhtar (from 14 th Nov., 2023) |
| 4. | Office Supervisor | One | Mr. Mritunjay Kumar |
| 5. | Accounts Assistant | One | Mr. Rakesh Munda |
| 6. | Sr. Office Assistant (Ticketing) | Two | Mr. Shyam Ranjan Mahato, Mr. Biswanath Mazumdar |
| 7. | Sr. Office Assistant (Admin) | One | Mr. Kartik Gorai |
| 8. | Driver cum cook | One | Mr. Rajesh Pal |
| 9. | Store staff | One | Mrs. Gyani Devi |
| 10. | Business Development Executive | One | Ms. Swati Kumari (Intern- from 1 st March 2024) |
| CAPTIVE ANIMAL Housing & Welfare | | | |
| 1. | Curator | One | Dr. Sanjay Kumar Mahato |
| 2. | Field Supervisor | Two | Mr. Dilip Dey; Mr. Tarkeswar Ram |
| 3. | Field Assistant /Associate | One | Mr. Som Mahto |
| 4. | Keeper (Animals) | Six | Mr. Lalan Kumar; Mr. Sulendra Das; Mr. Bijoy Mukhi; Mr. Binod Sharma; Mr. Surendra Kumar Singh; Mr. Dinesh Mahto |
| 5. | Asst. Keeper (Animals) / Animal Attendants | Eight | Smt. Malti Majhi; Smt. Mr. Rajkishor Harpal; Mr. Manoj Nag; Mr. Bharat Chandra Mahato; Mr. Vishal Singh; Mr. Snehasish Dey & Mr. Dubraj Mardi |
| CONSERVATION BIOLOGY, EDUCATION & RESEARCH | | | |
| 1. | Biologist cum Education Officer | One | Dr. Seema Rani |
| 2. | Sr. Office Assistant (Education) | One | Mr. Pratap Gill |
| CAPTIVE ANIMAL HEALTH & NUTRITION | | | |
| 1. | Junior Veterinary Officer | One | Vacant |
| 2. | Veterinary Compounder | One | Mr. S.C Mahato (Contractual) |
| 3. | Lab Assistant | One | Vacant |
| 4. | Nursing Assistant | One | Mr. Linsa Harpal (Animal Keeper), Mr. R Srinivas (Sr. Field Asst.) |

CAPACITY BUILDING

| Name and designation of the zoo personnel | Subject matter of Training | Period of Training | Name of the Institution where the Training attended |
|---|----------------------------|--------------------------------|---|
| Dr. M. Palit | Waste management | 1 st December 2023 | Nandankanan Biological Park, Bhubaneswar, Odisha |
| Dr. M. Palit | Zoo management | 11-12 th March 2024 | Green Zoo, Rescue and Rehabilitation Centre, Jamnagar |

ZOO ADVISORY COMMITTEE

The Tata Steel Zoological Society (TSZS) is in the process to reconstitute the Zoo Advisory Committee. The details of the TSZS is given below:

| | | |
|--|--|---|
| 1 | Mr. Chanakya Choudhary, Vice President, Corporate Services, Tata Steel | President |
| 2 | Mr. Sourabh Roy, Chief, Corporate Social Responsibility, Tata Steel | Vice-President |
| 3 | Capt. Amitabh- Head, Skill development Tata Steel Foundation | Secretary |
| 4 | Mr. Vinay Kumar Sharma, Sr. Manager (CMAG), Tata Steel | Treasurer |
| 5 | Mr. Pranay Sinha, Chief (CS), Tata Steel | Member |
| 6 | Mr. Ajay Kumar Singh, Head HRBP, Iron making, Tata Steel | Member |
| 7 | Mr. Kripal Singh, Sr. Manager (Societies), Tata Steel | Member |
| 8 | Ms. Shuvra R, Sr. Manager (Communications), Tata Steel Foundation | Member |
| 9 | Mr. Sumir Mathur, Sr. legal Counsel, Tata Steel | Member |
| 10 | Mr. Ezhilan Arivudai Nambi, Tata Steel Foundation | Member |
| Permanent Invitees from Zoological Park | | |
| 11 | Mr. Bipul Chakrabarty | Director (till 31 st Oct, 23) |
| 12 | Dr. Manik Palit | Deputy Director |
| 13 | Dr. Naim Akhtar | Deputy Director (from 14 th Nov, 24) |

HEALTH ADVISORY COMMITTEE

Zoo Veterinary Health Advisory Committee members met physically on 6th – 7th March, 2024. Regular consultation was also held with the members of Health Advisory committee virtually including obtaining their assistance in Post-mortem examination of endangered animals that had died in the Zoo.

| | | |
|----|--|-------------------|
| 1 | Dr. M. Navin Kumar, Deputy Director (Retd) & consultant, Nehru Zoological Park, Hyderabad, Telangana | Chairperson |
| 2. | Dr Om Prakash Sahu, Bhagwan Birsa Munda Biological Park, Ranchi | Member |
| 3. | Prof. Dr Indramani Nath, Coordinator, Centre for Wild life Health, College of Veterinary Science and Animal husbandry, OUAT, Bhubaneswar, Odisha | Member |
| 4. | Dr. Tuhin Chakraborty, Deputy Director (Retd) & former Veterinary officer, Padmaja Naidu Himalayan, Zoological Park, Darjeeling | Member |
| | Dr Sharat Kumar Sahu, Veterinary Officer, Nandankanan Biological Park, Bhubaneshwar. | |
| 5. | District Animal Husbandry Officer, East Singhbhum | Ex-officio member |
| 4. | Dr. Manik Palit, Deputy Director and Veterinary Officer, Tata Steel Zoological Park, Jamshedpur, Jharkhand | Coordinator |
| 5 | Dr. Naim Akhtar, Deputy Director, Tata Steel Zoological Park | Invitee |
| 6 | Dr. Sanjay Kumar Mahato, Curator, Tata Steel Zoological Park | Invitee |

Following was the outcome of the meetings;

The visiting team members go round the Zoo in every cage and evaluate on-the-spot for all the animals/birds in captive to the facilities being provided by the Zoo and possible suggestions, if any, for the betterment of the animals.

I. New facility for Panther/Hyena/Gharial/Mugger enclosures –

- 1) The team appreciated the new cages of the above animals.
- 2) Dr. Navin Kumar suggested restrict breeding in accordance with carrying capacity in Gharial, Mugger, considering the basking area. Provision for creation of overflow in the newly constructed Pond to facilitate moving out of floating algae growth.

II. Gharial enclosure

- (a) Provision for overflow of water may be provided.
- (b) May explore possibility of removal of silt/mud in bottom of Pond of the enclosure twice a year.
- (c) May increase sand area of the enclosure for basking by remodelling of the periphery wall of the enclosure. More amount of sand for basking should be provided on priority basis.

III. White Tiger

(a) The white tiger (Male) which is suspected for Osteosarcoma growth at left chest and hip bone. The animal is now showing the symptom of senility. The members suggested for supplementation with Neurokind Plus Syrup.

(b) At the moment, the Zoo is administering Neurobion Forte Tablets and AD3 Syrup along with Calciroyal Powder.

IV. African Grey Parrot Chick (for Crop - Fistul self-mutilation of the surgical wound)

(a) It is suggested to cover up with any sterilised cloth material over the Fistula surgery area.

(b) Applying of Neem Oil (once a day) or Topicure Spray (twice in a day) may be used.

V. Zoo Hospital Inpatient Ward

(a) For Primates and Birds - It is suggested to cover floor with mat or soil surface.

(b) Provision should be made to provide rough surface to inpatient ward.

(c) Rubber sheet or cut wood pack surface may be provided as per requirements.

VI. Star Tortoise

(a) It is suggested to provide Ultraviolet Light (UV).

(b) Water provision for Indian Star Tortoise should be provided (Soil Water Tub) for improving humidity requirements.

Other than the above advisory committees, the Zoo was also guided by following two subcommittees in its day to day administrative and development matters:

A) Zoo Purchase Committee

| Sl. No. | Name / designation | Position |
|---------|---|----------|
| 1. | Mr. Kripal Singh, Sr. Manager, TSU ISL and Member, TSZS | Chairman |
| 2. | Dr. Manik Palit, Dy. Director, TSZP | Member |
| 3. | Dr. Sanjay Kumar Mahato, Curator, TSZP | Convener |

B) Zoo Civil Construction Committee

| Sl. No. | Name / designation | Position |
|---------|---|-------------------|
| 1. | Dr. Manik Palit, Dy. Director cum Veterinary Officer, TSZP | Member |
| 2. | Dr. Sanjay Kumar Mahato, Curator, Tata Steel Zoological Park | Convener |
| 3. | Er. P. P. Kundu (Retd.), Tata Steel Utilities & Infrastructure Services Limited | Technical Member |
| 4. | Er. N. K. Singh, PASA Cell, Tata Steel | Technical Member |
| 5. | Dr. Seema Rani, Bilogist Cum Education Officer | Permanent Invitee |

FINANCIAL PERFORMANCE-

Statement of Income & Expenditure

Revenue Income:

Tata Steel Foundation during the financial year 2023-24 provided Grant in Aid of ₹ 14.27 crores to Tata Steel Zoological Society for annual maintenance of the Zoo and initiating implementation of the master layout plan. The Society revenue through animal adoption, donation for up-gradation of Zoo Health care infrastructure and other miscellaneous income was ₹ 2.28 crores.

Revenue Expenditure:

Total amount spent by Tata Steel Zoological Society for operation of the Zoological Park and implementation of the master-plan during 2023-24 was ₹ 15.87 crores, major expenditure being on maintenance of captive animals, establishment, and creation of new entrance plaza with ticketing zone and construction of perimeter wall.

DAILY FEED SCHEDULE OF ANIMALS

Captive Animals are provided with a balanced diet drawn up by Curator, Veterinarian and Biologist of the Zoo. Accordingly, food is prepared and distributed on daily basis by animal keepers. All large cats are put on a day's fast every Monday. Details of food provided are given below:

| BIRDS | | | |
|----------------|-----------------------|--|-----------------|
| Sl. No. | Animal Species | Items | Quantity |
| 1 | Pheasants & Fowls | Mixed Grain (with 10% germinated green gram) | 100gms |
| | | Roasted Gram Powder (Sattoo) | 10 gms |
| | | Boiled Egg | 15 gms (1/4) |
| | | Green Vegetable Leaves | 25 gms |
| 2 | Peacocks | Mixed Grain (with 10% germinated green gram) | 200 gms |
| | | Roasted Gram Powder (Sattoo) | 20 gms |
| | | Boiled Egg | 30 gms (1/2) |
| | | Green Vegetable Leaves | 50 gms |
| 3 | Doves and Francolin | Mixed Grain (with 10% germinated green gram) | 50 gms |
| | | Roasted Gram Powder (Sattoo) | 5 gms |

| | | | |
|---------------|---|--|-------------|
| | | Boiled Egg | 5 gms (1/8) |
| | | Green Vegetable Leaves | 15 gms |
| 4 | Finches/ Budgerigar/ Munia/Java sparrow | China dana with paddy 10% | 10gms |
| | | Green Veg. leaves per group/ cell | 50 gms |
| | | Bajra | 5 gms |
| | | Sunflower seeds/ Kusum seeds per group/ cell | 30 gms |
| 5 | Love birds | China dana with Paddy 10% | 30 gms |
| | | Bajra | 10 gms |
| | | Sunflower seeds/ Kusum seeds | 10 gms |
| | | Banana / Papaya | 10 gms |
| 6 | Hill Myna | Roasted Gram Powder (Sattoo) | 50 gms |
| | | Banana | 50 gms |
| | | Germinated Green Gram (Moong) | 10 gms |
| | | Mango / Guava/ Seasonal Fruit | 10 gms |
| | | Papaya | 25 gms |
| 7 | Ostrich | Mix Grain | 2.5 kg |
| | | Banana | 2 ps |
| | | Boiled eggs | 1 ps |
| | | Green Vegetable Leaves | 250 gms |
| 8 | Emu | Mix Grain | 1.5 kg |
| | | Boiled Egg (Seasonal) | 1 pc |
| | | Banana | 2 pc |
| | | Green Vegetable Leaves | 250 gms |
| | | Green Grass | Ad Lib |
| 9. | Bengal eagle owl | Meat (Boiled) | 100gms |
| 10 | Blue and Yellow Macaw Morning 9.00 a.m. | Soaked Gram (Chana) | 50 gms |
| | | Groundnut | 50 gms |
| | | Sunflower, Kusum Seeds (Seasonal) | 20 gms |
| | | Soaked Corn Kernels (Boiled) | 25gms |
| | | Sugarcane (Ganna) | 20 gms |
| | | Graphs | 50 gms |
| | | Pomegranate | 25 gms |
| | Forenoon 11.00am – 12 noon | Carrots / Beetroot | 25 gms |
| | | Peas / Seasonal Fruit | 25 gms |
| | | Green Chilies | 5 gms |
| | | Banana | 50 gms |
| | | Papaya / Guava | 10 gms |
| | | Walnut | One ps. |
| | | Germinated green gram (Gota Moong) | 10 gms |
| Sweet pumpkin | 10 gms | | |
| Capsicum | 10 gms | | |
| 11 | Parakeets | Soaked Gram (Chana) | 25 gms |

| | | | | |
|-----------------------------------|-------------------------------------|--|---------------------|--------|
| | Morning 9.00 a.m. | Groundnut | 25 gms | |
| | | Sunflower, Kusum Seeds (Seasonal) | 10 gms | |
| | | Germinated Green Gram (Moong) | 10 gms | |
| | Forenoon 11.00a.m–12 noon | Carrots / Beetroot | 10 gms | |
| | | Seasonal Fruit / Peas | 10 gms | |
| | | Green Chillies | 5 gms | |
| | | Banana | 10 gms | |
| | | Papaya / Guava | 10 gms | |
| | | Soaked Corn Kernels | 25 gms | |
| 12 | Cockatiel Morning 9.00 a.m. | Foxtail Millet (Cheena Dana) with 10% Paddy Whole | 10 gms | |
| | | Sunflower, Kusum Seeds (Seasonal) | 10 gms | |
| | | Germinated Green Gram (Moong) | 10 gms | |
| | Forenoon 11.00am –12 noon | Carrots / Beetroot | 10 gms | |
| | | Seasonal Fruit / Peas | 5 gms | |
| | | Banana | 10 gms | |
| | | Soaked Gram (Chana) | 25 gms | |
| | 13 | Cockatoo/ African Grey Parrots Morning 9.00 a.m. | Soaked Gram (Chana) | 50 gms |
| | | | Groundnut | 50 gms |
| Sunflower, Kusum Seeds (Seasonal) | | | 20 gms | |
| Germinated Green Gram (Moong) | | | 10 gms | |
| Soaked Corn Kernels (Boiled) | | | 25 gms | |
| Forenoon 11.00am – 12 noon | | Carrots / Beetroot | 25 gms | |
| | | Peas / Seasonal Fruit | 25 gms | |
| | | Green Chillies | 5 gms | |
| | | Banana | 50 gms | |
| | Papaya / Guava | 10 gms | | |
| | | Pedigree Pellets | 10 gms | |
| 14 | Rainbow Lorikeet Morning 9:00 am | Milk | 30 ml | |
| | | Honey | 2.5 ml | |
| | | Cerelac | 10 gms | |
| | | Banana/ Papaya/ Watermelon | 20 gms | |
| 15 | Bar headed Goose/ Geese | Paddy | 100 gms | |
| | | Polished Rice | 100 gms | |
| | | Green Vegetable Leaves | 150 gms | |
| | | Green Grass | Ad Lib | |
| 16 | White Ibis | Fish (dead) | 200 gms | |
| 17 | Rosy Pelican | Fish (dead) | 300-500 gms | |

| Formula for Birds mix grain | |
|------------------------------------|-----|
| Crushed Gram (Chana) | 20% |
| Whole Paddy | 20% |
| Crushed Maize | 20% |
| Wheat | 15% |
| Split Red Lentils (Masoor Dal) | 6% |

| Formula for Emu mix grain | |
|----------------------------------|-----|
| Crushed Maize | 45% |
| Oil Cake | 5% |
| Bird Mix. Grain | 35% |
| Rice Bran | 10% |
| Mineral Mixture | 2% |
| Stone Grit | 3% |

| MAMMALS- Primates | | | |
|--------------------------|---|---|---------------|
| 1 | Mandrill monkey | Banana | 1 pc |
| | | Apple | 1 pc |
| | | Morning 9.00 am | Dog feed |
| | Forenoon 11.00 am | Apple | 200 gms |
| | | Banana | 200 gms |
| | | Papaya | 200 gms |
| | | Seasonal Fruit-Guava/Mango/Corn | 200 gms |
| | | Carrot/beetroot | 200 gms |
| | | Sweet Pumpkin | 200 gms |
| | | Sweet Potato | 200 gms |
| | | Cabbage | 200 gms |
| | | Capsicum (Simla Mirch) | 100 gms |
| | | *Boiled Egg (once a week, in winter twice a week) | 67 gms (1 pc) |
| | Afternoon 2.00-3.00 pm | Cooked Mixed Grain Bread (Chapati) | 50 gms |
| Afternoon 4.00 pm | Cooked Rice / Khichri (rice, dal, turmeric powder, salt) on alternate day | 400 gms | |
| | Groundnut (whole) / Sunflower seeds | 50 gms | |

| | | | |
|-----------------------|---------------------------------------|----------------------------------|-----------------|
| 2 | Hanuman Langur: Morning 9.00 am | Green Leaves | Ad Lib |
| | | Banana | 100 gms (1pc) |
| | | Apple | 50 gms (1/2 pc) |
| | Forenoon 11.00 am | Banana | 300 gms |
| | | Soaked Gram (Chana) | 100 gms |
| | | Groundnut | 100 gms |
| | | Carrot / Beetroot / Sweet Potato | 100 gms |
| Papaya / Corn / Guava | | 100 gms | |
| | Green Vegetable Leaves | 100 gms | |
| Afternoon 3.00 pm | Tree Leaves | Ad Lib | |
| Afternoon 4.30 pm | Cooked Bread (Chapati) | 100s | |
| 3 | Macaque (Bonnet / Rhesus): 9.00 am | Banana | 100 gms(1 pc) |
| | | Apple | 50 gms(1/2 pc) |
| | 11.00 am | Banana | 200 gms |
| | | Soaked Gram (Chana) | 100 gms |
| | | Groundnut | 100 gms |
| | | Carrot / Beetroot / Sweet Potato | 100 gms |
| | | Papaya / Corn / Guava | 100 gms |
| | | Green Vegetable Leaves | 100 gms |
| | Citrus fruits (Seasonal) | 50 gms | |
| 4.00 pm | Cooked Bread (Chapati) | 100 gms | |

| <u>Khichri/ 100 gms rice</u> | |
|-------------------------------------|-------------------|
| Rice | 100 gms |
| Moong dal (Green gram beans) | 50 gms |
| Turmeric powder | 2 tea spoons |
| Salt | According to test |
| Water | Ad Lib |

*Daily for lactating mother/sick animals as described

| MAMMALS: SMALL ANIMALS | | | |
|-------------------------------|--------------------------|------------------------|---------|
| 4. | Indian Crested Porcupine | Soaked Gram | 100 gms |
| | | Groundnut | 100 gms |
| | | Carrot / Beetroot | 100 gms |
| | | Potato | 100 gms |
| | | Banana | 100 gms |
| | | Pumpkin | 100 gms |
| | | Green Vegetable Leaves | 100 gms |

| MAMMAL- Herbivores | | | |
|---------------------------|----------------------------------|---------------------------------|-----------|
| 5 | Hippopotamus (11:00-11:30 am) | Concentrated Mixture | 10 kg |
| | | Chaff (Kutti) | 5 kg |
| | | Molasses (Seasonal) | 250 gms |
| | | Banana | 4.0 kg |
| | (3:00-40:00 pm) | Potato | 1.5 kg |
| | | Sweet Pumpkin | 1.5 kg |
| | | Green Grass | 2 kg |
| | | Bread | 2 kg |
| 13 | Zebra | Concentrated mixture | 2.750 Kg. |
| | | Roughages- | 3.25 Kg. |
| | | Carrot, Sweet potato/ beat root | 2.00 Kg |
| | | Grass hey | 1.00 Kg. |
| | | Paddy straw | 0.50 Kg |
| | | Molasses (Winter) | 0.60 Kg. |

| Concentrated mixture for Hippopotamus | | |
|--|--|-----|
| Bran Choker | | 20% |
| Gram (Chana) | | 10% |
| Corn (Makai) | | 17% |
| Barley (Jau) | | 20% |
| Green Gram (Moong) | | 15% |
| Oil Cake (Khalli) | | 15% |
| Mineral Mixture | | 3% |

For Zebra:

A. Concentrated Mixture:

| Sl. No. | Items | Quantity |
|---------|-------------------------|----------|
| 1 | Wheat bran (Choker) | 41% |
| 2 | Maize crusted | 21% |
| 3 | Bengal gram (Chana) dry | 15% |
| 4 | Jaw (Barley) crusted | 15% |
| 5 | Oat | 5% |
| 6 | Iodized salt | 1.5% |
| 7 | Mineral mixture | 1.5% |

B. Roughages:

| Sl. No. | Items | Quantity |
|---------|-------------------------------------|----------|
| 1 | Carrots and Sweet potato/ beat root | 2.00 Kg. |
| 2 | Grass hey | 1.00 Kg. |
| 3 | Paddy straw | 0.50 Kg. |

MAMMALS: DEERS AND ANTELOPES

| | | | |
|---|--|----------------------|---------|
| 6 | Nilgai & Sambar | Concentrated Mixture | 1.5 kg |
| | | Chaff (Kutti) | 200 gms |
| | | Molasses (Seasonal) | 100 gms |
| | | Tree Leaves | Ad Lib |
| | | Green Grass | Ad Lib |
| 7 | Spotted Deer, Blackbuck, Barking Deer, Hog Deer | Concentrated Mixture | 750 gms |
| | | Chaff (Kutti) | 100 gms |
| | | Molasses (Seasonal) | 50 gms |
| | | Tree Leaves | Ad Lib |
| | | Green Grass | Ad Lib |

Formula for Deer concentrated mixture

| | |
|--------------------|-----|
| Bran Choker | 20% |
| Gram (Chana) | 10% |
| Corn (Makai) | 17% |
| Barley (Jau) | 20% |
| Green Gram (Moong) | 15% |
| Oil Cake (Khalli) | 15% |
| Mineral Mixture | 3% |

MAMMAL: Omnivores

| Sl.No | Animal Species | Items | Quantity |
|-------|--------------------------------|--|---------------|
| 8 | Sloth Bear: Morning 9:00 AM | Groundnut | 100 gms |
| | | Sweet Potato / Potato | 200 gms |
| | | Carrot | 100 gms |
| | | Honey / Molasses (Braising of tree branches) | 50 gms |
| | | Banana | 200 gms |
| | 11:00 am – 11:30 am | Boiled rice | 750 gms |
| | | Milk | 1 litre |
| | | Boiled egg (Seasonal- Winter) | 1 pc /100 gms |
| | Evening | Cooked Bread (Chapati) | 750 gms |

| MAMMALS: CARNIVORES | | | |
|----------------------------|----------------|--|-----------------|
| Sl.No | Species | Items | Quantity |
| 10 | African Lion | | |
| | Male | Meat with bone (6 days a week) | 6-8 kg |
| | | Meat with bone (6 days a week) in winter | 8-10 kg |
| | Female | Meat with bone (6 days a week) | 6-7 kg |
| | | Meat with bone (6 days a week) in winter | 6-8 kg |
| 11 | Bengal Tiger | | |
| | Male | Meat with bone (6 days a week) | 6-8 kg |
| | | Meat with bone (6 days a week) in winter | 8-10 kg |
| | Female | Meat with bone (6 days a week) | 6-7 kg |
| | | Meat with bone (6 days a week) in winter | 6-8 kg |
| 12 | Common Leopard | | |
| | Male | Meat with bone (6 days a week) | 2 Kg. |
| | | Chicken (6 days a week) | 1.0 Kg. |
| | | Meat with bone (6 days a week) in winter | 2- 2.5 Kg |
| | | Chicken (6 days a week) in winter | 1.0 Kg. |
| | Female | Goat Meat (6 days a week) | 1.5 Kg. |
| | | Chicken (6 days a week) | 1.0 Kg. |
| | | Winter- Goat Meat (6 days a week) | 1.5- 2.0 Kg. |
| | | Chicken (6 days a week) | 1.0 Kg. |
| 9 | Striped Hyena | | |
| | Male | Meat (6 days a week) | 1.5 -2.0 kg |
| | | Winter- | |
| | Female | Meat (6 days a week) | 1.5 -2.0 kg |
| | | Winter- | |

| REPTILES | | | |
|-----------------|-----------------|---|-----------------|
| Sl. No. | Species | Item | Quantity |
| 1 | Star Tortoise | Carrots / Sweet Potato | 10 gms |
| | | Papaya | 10 gms |
| | | Tomato / Banana / Watermelon | 10 gms |
| | | Cucumber | 10 gms |
| | | Green Vegetable Leaves -Spinach (Palak) | 10 gms |
| | | Bengal Gram | 10 gms |
| | | Calcium granules | 5 gms |
| 2 | Marsh Crocodile | Meat (Goat meat)- Alternate day | 0.500-1.0 kg |
| | | Winter-(Alternate day) | 0.500 gms |
| 3 | Gharial | Fish (dead) - Alternate days | 500 gms |
| | | Winter Fish (dead) - Alternate day | 250-500 gms |

Feed Schedule revised- February, 2023, Ref. to the Feed schedule of animals at TSZP dated 14.06.2014 .

Vaccination Schedule:

| # | Species | Diseases covers | | Name of the vaccine | Dose and route | Periodicity |
|----|---------------------------|-----------------------|---|-------------------------|--------------------|--|
| 1 | Tiger, Lion & Leopard | Feline Distemper | Calci virus, Rhinotracheitis and Rabies infection | BIOFEL PCHR | 1.00 ml S/C or I/M | Annual |
| 2. | Cloven footed Herbivores | Foot & Mouth diseases | FMD virus | Clovax/ Rakcha Ovac | 2.00 ml S/C or I/M | Every nine month |
| 3 | Monkeys | Tetanus | Tetanus | Tet vac/ Tetanus toxoid | 0.5 ml I/M | As per need |
| 4 | Animal Section staff/ Vet | Anti-rabies Vaccine | Anti-Rabies | Chiro rab | One dose I/M | As per need based on pre or post bite case |

De-worming Schedule:

| # | Class of Animal | Species | Month | Schedule of rotation | Remarks |
|----|----------------------|---|--------------------|-----------------------|--|
| 1. | Large cats and Hyena | Tiger, Lion, Leopard, Hyena | Mar, Jun, Sep, Dec | Four times in a year | Group of medicines changed almost every time |
| 2. | Ursidae | Sloth bear | Mar, Jun, Sep, Dec | Four times in a year | Not change |
| 3. | Herbivores | Hippopotamus, Deer, Antelope | Feb, May, Sept | Three times in a year | Alternate group on each occasion |
| 4 | Primates | Mandrill, Macaques, Capuchin monkey, Langur | Feb, May, Aug, Nov | Four times in a year | Sometimes changed |
| 5. | Aves | Peafowl, Ostrich, Emu, Duck, | Feb, Jun, Oct | Three times in a year | -do- |

| | | | | | |
|----|----------|--|--------------|-----------------|------|
| | | Pelican, Goose, Jungle fowl, Pheasant, Parakeet, Guinea fowl and Small birds | | | |
| 6. | Reptiles | Crocodile, Gharial and Indian Star tortoise | Sept and Mar | Twice in a year | -do- |

Disinfection Schedule

Curator (Zoo) in consultation with the veterinarian draws up the annual schedule for disinfection of all animal enclosures. Nimyl solution (Neem & Eucalyptus oil-based disinfectant) is used for cleaning the feeding cells. For open exhibit area lime and turmeric powder are spread ad libitum. Details of the schedule are provided below:

Disinfection / Cleaning Schedule of Zoo Animal Enclosures

| # | Species | Type of Enclosure | Disinfectant used and Methods | Frequency of Disinfection |
|---|----------------------|--|---|---------------------------|
| 1 | Hippopotamus | Wet moat open enclosure | a) Change of water of wet moat | Weekly |
| | | | b) Removal of dung & silt, Lime spreading in moat & enclosure | Monthly |
| | | | c) Tall grass cutting in display area | As per requirement |
| 2 | Monkeys & Macaques | Wet moat open enclosure and Closed enclosure | a) Lime –bleach spreading in and around enclosure | Weekly |
| | | | b) Cleaning of night shelter & cell with lime-bleach | Fortnightly |
| | | | c) Sterilization of cells with blow lamp | Monthly |
| | | | e) De-silting of wet moat (Langur and Mandrill) | As per requirement |
| | | | f) Tall grass cutting and removal in display area (Langur) | As per requirement |
| 3 | A. Birds & Pheasants | Closed Aviaries | a) Lime spreading around cells (Outside enclosure) | Weekly |
| | | | b) Cleaning of cells with Kohrsolin | Monthly |
| | | | c) Turning of soil inside the cells | Monthly |
| | B. Aquatic birds | Closed enclosure-Chain-link Covered | a) Lime-bleach spreading in and around enclosure | Weekly |
| | | | b) Change of water | Monthly |
| | | | c) De-silting of pond | As per requirement |
| 4 | Deer & Antelope | Open enclosure with | a) Cleaning of enclosure and spreading of lime/bleach | Weekly |

| | | | | |
|----|---|---|---|----------------------------|
| | | chain-link fence | b) Removal of dung from enclosure | Monthly |
| 5 | Bear | Dry moat open enclosure | a) Cleaning of cells with lime/Kohrsolin | Daily |
| | | | b) Lime bleach spreading in and around enclosure | Weekly |
| | | | c) Sterilization of cells with blow lamp | Monthly |
| | | | d) Bush (tall grass) cutting in display area | As per requirement |
| 6 | Lion, Tiger, Leopard & Hyena | Dry moat open enclosure, Wet moat open enclosure, Closed enclosure with chain-link covered, Dry moat open enclosure respectively. | a) Cleaning of cells with lime-bleaching/Kohrsolin | Daily |
| | | | b) Lime –bleaching spreading in and around enclosure | Weekly |
| | | | c) Sterilization of cells with blow lamp | * Weekly |
| | | | d) Bush (tall grass) cutting of enclosures | As per requirement |
| | | | e) Cleaning of tiger moat | As per requirement |
| 7 | Zebra | Open enclosure with chain link fence | Water wash of feeding area | Daily |
| | | | a) Lime –bleach spreading in and around enclosure | Weekly |
| | | | b) Cleaning of night shelter & cell with lime-bleach | Fortnightly |
| | | | b) Removal of dung from enclosure | Monthly/as per requirement |
| | | | f) Tall grass cutting and their removal in display area | As per requirement |
| 8 | Mugger & Gharial | Open enclosure with wall and chain-link fence | a)Change of pond water | Monthly |
| | | | b) Lime powder spreading around enclosure | Weekly |
| | | | c) de-silting of pond | As per requirement |
| | | | d) Tall grass cutting/ bush cutting | As per requirement |
| 9 | Ostrich & Emu | Open enclosure with chain-link fence | a)Removal of dung | Monthly |
| | | | b) Lime /Bleach spreading in and around enclosure | Weekly |
| | | | c) Tall grass cutting | As per requirement |
| 10 | Herbivores enclosure (Deer and Antelopes) | Open enclosure with chain link fence | a)Cleaning of feeding trough | Daily |
| | | | b) Lime spreading around feeding pots & on dung | Fortnightly |
| | | | c) Cleaning of Drink water pool with lime-bleach | Monthly |

| | | | | |
|----|-------------------------|--|--|-------------------------------------|
| | | | d) Tall grass/Bush cutting | As per requirement |
| 11 | Indian Star Tortoise | Closed enclosure with chain link and welded mesh fence | Lime spreading around (Outside) enclosure | Weekly |
| | | | Cleaning of encl. and Turning of Soil | Monthly |
| 12 | Butterfly Park | Closed enclosure with agro net covered | Cleaning Larva, breeding room and display area | Daily |
| | | | Lime spreading in & around the Centre. | As per requirement |
| 13 | Herbivores & carnivores | As mentioned above for respective animals | Turning of Soil of display area | Once in 5 years/ as per requirement |
| 14 | Large cats | As mentioned above for respective animals | Burning of display area | Yearly |

Health check-up of Zoo Employees:

All zoo employees including contractual / outsourced persons are subjected an annual medical examination. During the medical examination of all zoo personnel including laboratory tests for their sputum, faeces, blood & X-Ray of chest (PA view) was carried out. An Outcome of health examination is provided below.

| MEDICALCHECK UP INCLUDING CLINICAL EXAMINATION OF ZOO STAFF HELD ON 25.02.2024 | | | | | |
|--|-------------------------|--------|---------------|----------------|------------------|
| S.No. | Name | Gender | Blood Glucose | Blood Pressure | Remarks |
| 1 | Dr.Manik Palit | Male | Higher | Elevated | Under medication |
| 2 | Dr. Naim Akhtar | Male | Normal | Normal | Fit |
| 3 | Dr. Sanjay Kumar Mahato | Male | Normal | Normal | Fit |
| 4 | Dr. Seema Rani | Female | Normal | Normal | Fit |
| 5 | Mrityunjay Kumar | Male | Higher | Elevated | Needs treatment |
| 6 | Tarkeswar Ram | Male | Higher | Normal | Needs treatment |
| 7 | Dinesh Mahato | Male | Normal | Elevated | Needs treatment |
| 8 | Vijay Mukhi | Male | Normal | Normal | Anaemia ++ |
| 9 | Srinivasan | Male | Normal | Normal | Haematuria |
| 10 | Shyam Ranjan Mahato | Male | Higher | Elevated | Needs treatment |
| 11 | B.N. Mazumdar | Male | Normal | Elevated | Needs treatment |
| 12 | Kartic Gorai | Male | Higher | Elevated | Needs treatment |

| | | | | | |
|----|-----------------------|--------|--------|----------|------------------|
| 13 | Pratap Singh Gill | Male | Normal | Normal | Fit |
| 14 | Dilip Dey | Male | Normal | Elevated | Needs treatment |
| 15 | Limsa Harpal | Male | Normal | Normal | Fit |
| 16 | Binod Sharma | Male | Higher | Elevated | Needs treatment |
| 17 | Surendra Kumar Singh | Male | Normal | Normal | Fit |
| 18 | Lalan Kumar | Male | Normal | Normal | Fit |
| 19 | Sulendra Das | Male | Normal | Normal | Fit |
| 20 | Rakesh Munda | Male | Normal | Normal | Fit |
| 21 | Malti Majhi | Female | Normal | Normal | Anaemia |
| 22 | Gyani Devi | Female | Normal | Normal | Fit |
| 23 | Rajesh Pal | Male | Higher | Elevated | Needs treatment |
| 24 | Manoj Nag | Male | Higher | Elevated | Needs treatment |
| 25 | Raj Kishore Harpal | Male | Normal | Normal | Fit |
| 26 | Som Kumar Mahato | Male | Higher | Normal | Needs treatment |
| 27 | Bharat Chandra Mahato | Male | Normal | Normal | Fit |
| 28 | Vishal Singh | Male | Normal | Normal | Fit |
| 29 | Snehashish Dey | Male | Normal | Normal | Fit |
| 30 | Dubraj Mardi | Male | Normal | Normal | Fit |
| 31 | Sushen Chandra Mahato | Male | Higher | Elevated | Under medication |

DEVELOPMENTAL ACTIVITIES

EVALUATION OF THE TATA STEEL ZOOLOGICAL PARK BY THE CENTRAL ZOO AUTHORITY FOR AWARDING OF THE RECONGNITION:

The team consist of Shri V K Singh Ex PCCF, Government of Uttar Pradesh and Shri Sisir Kumar Acharya, Ex PPCF and Ex Director, Nandankanan Zoological Park visited to Tata zoo during 20th March to 21st March 2024 to evaluate the zoo for the renewal of award of recognition. They stayed here for two days and thoroughly discussed the zoo issues and evlaluat e each & every aspects of the zoo management and considered feasible reccomendaton to be made for the betterment of the zoo.





ANIMAL HABITATS AND UPKEEP

During the year, the following activities were taken up as part of improving upon the welfare of captive animals:

- a) Two new enclosures for Gharials and Muggers constructed which has been inaugurated by Mr. Chanakya Chaudhry, President, Tata Steel Zoological Society and Vice President (Corp. Services), TSL for public display.
- b) Four enclosures viz Hyena, Leopard, Black bucks and Butterfly Park are under construction as per new Master plan layout.
- c) The old administrative building has been renovated and modified for Research and Education Centre as per the approved master plan layout.
- d) Mock drill on “Monsoon/ Flood Management”, “Animal Escape” and “Visitor fall in enclosure moat” were organised with the field staffs.
- e) Replacement of sand substrate of small mammals, Pheasantry, kraal of lion, tiger, leopard, hanuman langoor, zebra, and sloth bear enclosure are done.
- f) Cleaning and refilling of water in all aquarium.
- g) Desilting of dry moat of Sambar Deer enclosure, sloth bear enclosure carried out
- h) Installation of electricity in newly modified -old capuchin enclosure for Indian star tortoise

EDUCATION AND AWARENESS

The core work of Zoo education is disseminating knowledge and awareness about our natural resources, wildlife, and their protection and conservation. We also aim at inspiring the general public to participate in the scientific management of the flora and fauna at an individual level. Tata Zoo has been constantly working towards its research and education goals and has seen success in doing so. Along with all other initiatives which have been a part of our vision and objectives, we have initiated the compliance with the LiFE (Life style For Environment) initiative by government of India envisioning a better world to live in for ourselves as well as for the generations to come.

In line with our aspirations, the primary awareness activities that were undertaken during the year are as follows:

| S.no | Events / Programs | Period | Activity |
|------|-----------------------|---|---|
| 1 | Biodiversity Day | 22 nd May 2023 | <p>On the occasion of International Biodiversity Day, a painting competition was organized for school students, where a total of 65 participated in junior, middle and senior categories.</p> <p>A seminar was organized jointly with Yuganter Bharti at the Zoo to spread awareness about the importance of biodiversity and the positive impact upon its conservation.</p> |
| 2 | World Environment Day | 4 th - 5 th June 2023 | <p>Our environment is indispensable and its protection and preservation is our prime duty for the sustenance of life on this planet. To raise awareness amongst the general public on the need for its preservation, we celebrated World Environment Day on 4th and 5th June. The central theme of this year's WED was to "Beat Plastic Pollution" at our Zoo.</p> <p>The following were the activities conducted:</p> <ol style="list-style-type: none"> 1. 4th June – Keeper for a Day 2. 5th June – Nest Making, Touch n learn, Keeper Talk and Distribution of Newspaper Bags to the public. <p>A total of 56 school students participated in the awareness rally and promoted "Refuse-Reuse-Recycle" to curb the plastic pollution in the surrounding. Around 80 people were directly made aware through distribution of paper bags.</p> |

| | | | |
|---|----------------------------|--|---|
| 3 | International Tiger Day | 29 th July 2023 | <p>Royal Bengal Tiger is the National Animal of India. The dwindling numbers of tigers in the wild is a cause of concern for the wildlife biologists and admirers of these majestic creatures. However, conservation efforts by the biologists backed by the government have seen slow yet hopeful results.</p> <p>Keeper Talk on Tiger was organized to make aware about these magnificent carnivores to the visitors at zoo.</p> |
| 4 | Van Mahotsava | 1 st – 31 st July 2023 | <p>Van Mahotsava meaning festival for forests reminds us the importance of forest and the positive impact it has on our lives. The forest provides habitat to innumerable species of insects, birds and animals; provides timber, medicine, oxygen, etc. that makes the ecosystem full of life.</p> <p>This year, the Zoo involved school/ college students and its own staff (management, officers and staff) in plantation of fruit bearing and native plant species like Jamun, Piyal, Kendu, etc., with the sole purpose of providing food and shelter for wild fauna present in Zoo.</p> <p>A total of 40 tree saplings planted, where more than 70 school children participated.</p> |
| 5 | World Vulture Day | 2 nd September 2023 | <p>Tata Steel Zoological Park, Jamshedpur this year celebrated International Vulture Awareness Day in association with Kerala Public School, Burmamines. 50 students with 3 accompanying teachers participated and performed a “Nukkad Natak” to promote the message of “Save Vultures”.</p> |
| 6 | Swachhata Pakkhwada | 15 th Sept-2 nd Oct | <p>A two week Swachhata Hi Seva campaign was organised under the theme ‘Garbage Free India’. Many activities like cleanness drive, pasting of refundable coupons for the drive “Bottle back”, and pledged towards maintaining cleanliness</p> |
| 6 | Wildlife Week Celebrations | 2 nd – 7 th October 2023 | <p>An annual tradition of celebrating wildlife during the first week of October is the flagship program of Tata Steel Zoological Park where hundreds of students participate in events like Quiz, Debate, Fancy Dress Parade and On-the-spot painting competition around wildlife.</p> <p>This year the zoo witnessed the largest ever participation of school students from Nursery to STD X, and also online participants from 3 different states. The total number of around 1926 beneficiaries across 35 institutions benefitted via the celebration.</p> |

| | | | |
|----|--|--|---|
| 7 | Sloth Bear Day | 12 th October 2023 | On the occasion of World Sloth Bear Day, an informative Keeper Talk was organized on Sloth Bear, where a total of 60 people participated. |
| 8 | AGM of Tata Steel Zoological Society | 8 th January, 2024 | Shri Chanakya Chaudhary President of the Tata Steel Zoological Society, chaired the AGM of the society which is a mandatory compliance to discuss the important issues and resolve. |
| 9 | Inauguration of the homes of the Gharial and Crocodile | 8 th January, 2024 | Shri Chanakya Chaudhary President of the Tata Steel Zoological Society inaugurated homes of the Gharial and Crocodile and open it for the visitors. |
| 10 | Foundation Day | 16 th January 2024 | Tata Steel Zoological Park celebrated its 34th Foundation Day with the cutting of the cakes, speeches by the management among other educational activities. It was marked by the presence of many esteemed guests and the participation of around 350 school students . |
| 11 | Animal Welfare Fortnight | 16 th – 31 st January 2024 | The objective of the Animal Welfare Fortnight is to understand the animal laws which contain details governing the use and treatment of domestic and wild animals in India. A participation of around 1805 students/ general public across 11 schools/ institutions was benefitted through this celebration. |
| 12 | World Wetland Day | 2 nd February 2024 | The Tata Steel Zoological Park witnessed a participant of 304 school children with their accompanying teachers on the occasion of World Wetland Day. The purpose of commemorating this day is to educate people about the wetlands, their conservation and their importance in the human life. A talk on the importance of Wetland and Zoo Visit were organized. |
| 13 | World Wildlife Day | 3 rd March 2024 | To raise awareness among the general public on the need to preserve our wildlife and explain its importance in human life, a Keeper Talk was organized. 390 people participated in it. |
| 14 | World Sparrow Day Celebration | 13-20 th March 2024 | In collaboration with Rotary Club of Jamshedpur, Tata Steel Zoological Park organised a World Sparrow Day Celebration Campaign at the zoo. Apart from the awareness sessions, drawing competitions on the same were also organised. More than 600 students of TSUISL & Government schools participated in this program. |



Inauguration of the homes of the Gharial and Crocodile by Shri Chanakya Chaudhary, President TSZS & VPCS Tata Steel Limited



Media brief by Shri Chanakya Chaudhary, President TSZS & VPCS Tata Steel Limited



Media coverage of Inauguration of the homes of the Gharial and Crocodile at Jamshedpur



34th Zoo Foundation Day Celebration at Tata Steel Zoological Park



Celebration of the Zoo Foundation Day of the Tata Steel Zoological Park on 16th January 2024



Celebration of the Zoo Foundation Day of the Tata Steel Zoological Park on 16th January 2024 with School Children's and Cake Cutting



Release of the public view of the new acquired Blue & Yellow Macaw and Sulphur Crested Cockatoo by Lt. Col. Sangeeta Sinha and Captain Amitabh, Hon. Secretary TSZS on 26th January 2024.

Volunteer Program: Volunteers are engaged and associated at Zoo in not only research activities, but also in wildlife conservation education initiatives.

SEASONAL SPECIAL ARRANGEMENTS FOR UPKEEP OF ANIMALS

Plan for seasonal management was prepared and implemented accordingly. Mainly Zoo needs the plan for summer management, monsoon/flood management and winter management action plan. Mock drill on action plan was also organised. For monsoon / flood action plan, two teams of field staffs constituted every year to deal with the emergency situation.

ECOLOGICAL ENRICHMENT OF ENCLOLSURE

Zoo grown Mango provide to all primates during summer days as feeding enrichment. Approx. 30 pieces of Mango provided to the captive primitive primates.

Ecological enrichment in World of Parrot (Provided perches), Mandrill enclosure (Provided wooden plate form and hut), all cells of Pheasantry (provided new perches and hiding space), Peacock enclosure (provided Perching site), and earthen pots provided to the birds as nest boxes. Refresh of enclosure substrate with replacement of sand done in kraal of Lion, Tiger, Sloth bear, Mandrill, World of Parrots, Small Mammals, Zebra enclosure, etc. Enclosure enrichment carried out in newly constructed Gharial and Mugger enclosure.

RESEARCH WORK

Research work is one of the most important activities in the zoo apart from display and education of general public. Understanding the diurnal behaviour and feed preference in captivity plays a crucial role in determining the right measures to take for proper upkeep and impeccable animal welfare. Wild animals may show behaviour unlike their natural habitats to cope with the captive environment. Some animals are highly territorial, some are aggressive and some are social in their natural habitat and to provide and add suitable enrichment to mimic those environments is equally important.

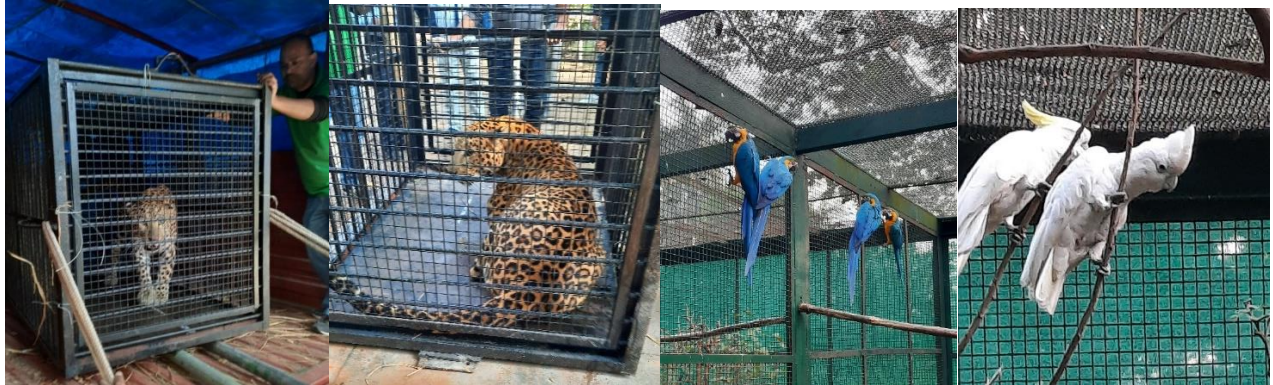
The research work includes diurnal behavioural observation, leftover measurement, and breeding and rearing of animals in captivity, etc. In the current year, the following were the research works undertaken:

| Research Activities & Outputs | | | | |
|-------------------------------|--|-----------------|--|-----------------|
| Sl No. | Study Topic | Cause for Study | Observation | Output/ Remarks |
| 1 | Study on the feeding habit of Indian Star Tortoise | New born | 45 days observation from 14 August, 2023 to 29 September, 2023 carried out | |

| | | | | |
|---|---|---|---|---|
| 2 | African Grey Parrot | Planned breeding program | Program carried out from 8 May, 2023 to 8 August, 2023, and 26 October, 2023 to 13 February, 2024 | 6 chicks |
| 3 | Consumption of food by the animals | | | |
| | a) Leopard (Boxer) | Estimation of actual food consumption by the animal | 15 days leftover food (meat) measurement from 17 December, 2023 to 31 December, 2023 | Report submitted to Vet for further evaluation |
| | | | 12 days leftover food (meat) measurement from 31 January, 2024 to 11 February, 2024 | |
| | b) Leopard (Kali) | Estimation of actual food consumption by the animal | 15 days leftover food (meat) measurement from 17 December, 2023 to 31 December, 2023 | |
| 4 | Diurnal behaviour observation of newly arrived animals | | | |
| | a) Gharial | Acclimatization of the animal in a new environment | Observation from 5 January, 2024 to 13 February, 2024 | No fighting observed between new and old stock and new arrivals fully immersed into the zoo environment |
| | b) Blue-and-gold macaw | | Observation from 17 December, 2023 to 13 February, 2024 | Diurnal and Feeding Behaviour found to be normal, the birds enjoying the zoo environment |
| | c) Sulphur crested cockatoo | | | |
| 5 | Observation and literature study for ecological enrichment of enclosure for species specific | | | |
| | a) Sloth Bear | Sustaining the natural instinct of the wild animal and stress reduction | | |
| | b) Peacock | | | |
| | c) Parrot and Parakeet | | | |

ANIMAL ACQUISITION/TRANSFER/EXCHANGE

- a) We acquired Common leopard (1:1), Gharial (1:1), Blue-and-yellow macaw (2:2), and Sulphur crested cockatoo (1:2) from North Bengal Wild Animal Park, Siliguri, WB and disposed Mandrill monkey (1:2) to NBWAP, Siliguri under animal exchange program.
- b) Received 13 ground birds [red jungle fowl (2:3), silver pheasant (2:3) and golden pheasant (1:2)] from Padmaja Naidu Zoological Park, Darjeeling, WB as a donation.



RESCUE AND REHABILITATION OF WILD ANIMALS

The Zoo is situated within the largest Elephant landscape (Central-East) of the country which harbours quite a few reserve forests and wildlife sanctuaries notable among them being the Dalma Elephant Reserve. Thus, the zoo regularly cooperates with the Forest Department in rescue and rehabilitation of wild animals. During the year under report, various species of animals rescued by the Forest Department in injured condition and were provided veterinary care at the Zoo Veterinary Hospital before being rehabilitated back to their wild habitat. List of rescues attended during 2023-2024 is provided below:

| Sl. No | Date of Rescue | Details of animals and no of specimen | Received from | Action taken | |
|--------|----------------|---------------------------------------|-------------------|---|---|
| | | | | Date & place of rehabilitation / Disposal | Reason for housing in the zoo/ if not released in their habitat |
| 1 | 24.11.23 | Grey leg goose | R.F.O, Mango, JSR | Transfer for display in the zoo in Beat III | The bird is housed in zoo pelican cage |
| 2 | 28.11.23 | Barn owl | Dr. Vijaya bharat | | Was having severe wing injury and zoo hospital dislocation admitted to zoo hospital after 2 days the bird was died. |

| | | | | | |
|---|----------|------------|--------------|--|--|
| 3 | 09.03.24 | Sloth bear | DFO Godda | | The cub was not able to survive in the wild therefore admitted into the hospital (quarantine area for hand rearing and treatment for malnourishment) |
|---|----------|------------|--------------|--|--|

Free ranging two cobras, Five Indian Rock Python and six Rat snakes were rescued/ captured from animal enclosure and released in the Zoo Forest patches.

ANNUAL INVENTORY:
(1.04.2023 to 31.03.2024)

| SCH-I & SCH-II -WILD LIFE (PROTECTION) ACT | | | |
|---|----------------------------|-------------------------------|-----------------------------------|
| S.No | Name of species | Scientific Name | STOCK AS ON 31.03.2024 |
| BIRDS | | | M F U T |
| 1 | Pea Fowl (NC) | <i>Pavo cristatus</i> | 4 7 2 13 |
| 2 | Hill myna | <i>Gracula religiosa</i> | 0 0 3 3 |
| TOTAL BIRD | | | 4 7 5 16 |
| REPTILE | | | |
| 1 | Gharial | <i>Gavialis gangeticus</i> | 1 4 0 5 |
| 2 | Mugger | <i>Crocodylus palustris</i> | 0 1 0 1 |
| TOTAL REPTILE | | | 1 5 0 6 |
| MAMMALS | | | |
| 1 | Sloth Bear | <i>Melursus ursinus</i> | 1 1 0 2 |
| 2 | Black Buck | <i>Antilope cervicapra</i> | 20 15 5 40 |
| 3 | Indian Hog deer | <i>Axis porcinus</i> | 5 14 2 21 |
| 4 | Northern plain Gray Langur | <i>Semnopithecus entellus</i> | 3 3 0 6 |
| 5 | Leopard | <i>Panthera pardus</i> | 1 1 0 2 |
| 6 | Bonnet Monkey | <i>Macaca radiata</i> | 1 2 0 3 |
| 7 | Rhesus Monkey | <i>Macaca mulata</i> | 1 3 0 4 |
| 8 | Tiger Bengal (Normal) | <i>Panthera tigris tigris</i> | 0 2 0 2 |
| 9 | Tiger Bengal (White) | <i>Panthera tigris tigris</i> | 1 0 0 1 |
| TOTAL | | | 33 41 7 81 |
| ANIMALS of OTHER SCHEDULE | | | |
| BIRDS | | | M F U T |
| 1 | Cockateel | <i>Nymphicus hollandicus</i> | 0 0 19 19 |

| | | | | | | |
|----|----------------------------------|----------------------------------|-----------|-----------|-----------|------------|
| 2 | Bar Headed Goose | <i>Anser indicus</i> | 0 | 0 | 1 | 1 |
| 4 | Rainbow Lory | <i>Tricoglossus haematodus</i> | 0 | 1 | 0 | 1 |
| 5 | Larg. Ind. Parakeet | <i>Psittacula eupatria</i> | 10 | 4 | 3 | 17 |
| 6 | Rose Ring. Parakeet | <i>Psittacula krameria</i> | 2 | 3 | 0 | 5 |
| 7 | Red Breasted parakeet | <i>Psittacula alexendri</i> | 1 | 0 | 0 | 1 |
| 8 | Red Jungle Fowl | <i>Gallus gallus</i> | 2 | 4 | 4 | 10 |
| 9 | Silver pheasant | <i>Lophuranyx themera</i> | 2 | 3 | 0 | 5 |
| 10 | Reeves pheasant | <i>Syrmaticus reevesi</i> | 0 | 1 | 0 | 1 |
| 11 | Lady Amherst pheasant | <i>Chrysolophus amherstiae</i> | 0 | 1 | 0 | 1 |
| 12 | Ring necked pheasant | <i>Phasianus colchinus</i> | 1 | 0 | 0 | 1 |
| 13 | Emu | <i>Dromaius novaehollandiae</i> | 2 | 5 | 8 | 15 |
| 14 | Ostrich | <i>Struthio camelius</i> | 0 | 0 | 0 | 0 |
| 15 | Sulphur crest. Cockatoo | <i>Cocatoe galarita</i> | 2 | 1 | 0 | 3 |
| 16 | African Grey Parrot | <i>Psittacus erithacus</i> | 2 | 2 | 12 | 16 |
| 17 | Great white Pelican | <i>Pelecanus Onocrotalus</i> | 0 | 1 | 0 | 1 |
| 18 | Indian Eagle owl | <i>Bubo bengalensis</i> | 0 | 0 | 1 | 1 |
| 20 | Budgerigar | <i>Melopsittacus undulatus</i> | 0 | 0 | 18 | 18 |
| 21 | Java Sparrow | <i>Lonchura oryzivora</i> | 0 | 0 | 0 | 0 |
| 22 | Helmeted Guinea Fowl | <i>Numida meleagris</i> | 0 | 0 | 1 | 1 |
| 23 | Japanese quail | <i>Coturnix japonica</i> | 0 | 0 | 1 | 1 |
| 24 | Blue-and-gold macaw | <i>Ara ararauna</i> | 2 | 2 | 0 | 4 |
| 25 | Greater Sulphur crested cockatoo | <i>Cacatua galerita</i> | 3 | 3 | 0 | 6 |
| 26 | Golden Pheasant | <i>Chrysolophus pictus</i> | 2 | 3 | 0 | 5 |
| | | TOTAL | 29 | 33 | 68 | 130 |
| | MAMMALS | | | | | |
| 1 | Sambar Deer | <i>Cervus unicolor</i> | 2 | 4 | 1 | 7 |
| 2 | Chital | <i>Axis axis</i> | 41 | 61 | 8 | 110 |
| 3 | Indian muntjac | <i>Muniacus muntjac</i> | 1 | 4 | 1 | 6 |
| 4 | Nilgai | <i>Boselaphus tragocamelus</i> | 4 | 3 | 2 | 9 |
| 5 | Stripped Hyaena | <i>Hyaena hyaena</i> | 2 | 0 | 0 | 2 |
| 6 | Hippopotamus | <i>Hippopotamus amphibius</i> | 1 | 0 | 0 | 1 |
| 7 | Mandrill Monkey | <i>Mandrillus sphinx</i> | 3 | 9 | 0 | 12 |
| 8 | Indian crested Porcupine | <i>Hystrix bengalensis</i> | 1 | 1 | 0 | 2 |
| 9 | African Lion | <i>Panthera leo krugeri</i> | 2 | 2 | 0 | 4 |
| 10 | Grant's Zebra | <i>Equus bohemii</i> | 1 | 1 | 0 | 2 |
| | | TOTAL | 58 | 85 | 12 | 155 |
| | REPTILES | | | | | |
| 1 | Red-eared slider turtle | <i>Trachemys scripta elegans</i> | 1 | 1 | 0 | 2 |
| 2 | Indian Star tortoise | <i>Geochelone elegans</i> | 13 | 8 | 0 | 21 |
| | | TOTAL | 14 | 9 | 0 | 23 |

Annual Mortality (2023-24)

| S.No. | Name of the Animal | Scientific name | Sex | Date of death | Reason of Death |
|-------|--------------------|----------------------------|------------|---------------|---|
| | Mammals | | | | |
| 1 | Black buck | <i>Antelope cervicapra</i> | 16.04.23 | 1, Female | In-fight injury and septicaemia |
| 2 | Black buck | <i>Antelope cervicapra</i> | 6.05.2023 | 1, Female | Perforated injury on abdomen- in-fight injury |
| 3 | Black buck | <i>Antelope cervicapra</i> | 23.05.2023 | 1, Male | Tympany and bloat |
| 4 | Barking deer | <i>Muntiacus muntjack</i> | 29.05.2023 | 1, Male | Pneumonia and lung degeneration |
| 5 | Black buck | <i>Antelope cervicapra</i> | 4.06.2023 | 1, Male | Pulmonary inflammation |
| 6 | Barking deer | <i>Muntiacus muntjack</i> | 8.06.2023 | 1, Female | Cardio- respiratory failure , could be heat stroke |
| 3 | Hog deer | <i>Muntiacus muntjack</i> | 14.08.2023 | 1, Male | Internal haemorrhage |
| 4 | Black buck | <i>Antelope cervicapra</i> | 14.08.2023 | 1, Male | Cardio- respiratory failure , |
| 5 | Black buck | <i>Antelope cervicapra</i> | 15.08.2023 | 1, Male | Cardio- respiratory failure predisposed with ascites |
| 6 | Black buck | <i>Antelope cervicapra</i> | 1.09.2023 | 1, Male | Cardio- respiratory failure predisposed with ascites |
| 7 | Sambar deer | <i>Rusa unicolor</i> | 18.09.23 | 1, Female | Cardio-respiratory failure and ascites |
| 8 | Black buck | <i>Antelope cervicapra</i> | 23.10.2023 | 1, Female | Pneumonia and cold exposer |
| 9 | Hog Deer | <i>Hylaphus porcinus</i> | 1.11.2023 | 1, Male | Pulmonary failure, tissue damage and septicaemia |
| 10 | Black buck | <i>Antelope cervicapra</i> | 11.11.2023 | 1, Male | Cardio-respiratory failure, chest injury, septicaemia |

| | | | | | |
|----|----------------|----------------------------|------------|-----------|--|
| 11 | Black buck | <i>Antelope cervicapra</i> | 13.11.2023 | 1, Male | Cardio-respiratory failure, pneumonia & cold exposer |
| 12 | Lioness | <i>Panthera leo</i> | 25.11.2023 | 1, Female | Intestinal obstruct |
| 13 | Black buck | <i>Antelope cervicapra</i> | 12.12.2023 | 1, Female | Cardio-respiratory failure, predisposed with hepatitis,septicemia & shock |
| 14 | Black buck | <i>Antelope cervicapra</i> | 04.1.2024 | 1, Male | Cardio-respiratory failure, chest injury, septicaemia & shock |
| 15 | Common Leopard | <i>Panthera pardus</i> | 06.1.2024 | 1, Female | Cardio-respiratory failure |
| 16 | Black buck | <i>Antelope cervicapra</i> | 09.1.2024 | 1, Male | Cardio-respiratory failure, predisposed with respiratory distress |
| 17 | Black buck | <i>Antelope cervicapra</i> | 09.1.2024 | 1, Male | Cardio-respiratory failure, predisposed with enteritis& shock |
| 18 | Black buck | <i>Antelope cervicapra</i> | 27.1.2024 | 1, Female | Cardio-respiratory failure, predisposed with acute pneumonia & Ascites |
| 19 | Bonnet monkey | <i>Macaca radiata</i> | 30.1.2024 | 1, Male | Cardio-respiratory failure, predisposed with acute pneumonia ,cold exposer |
| 20 | Black buck | <i>Antelope cervicapra</i> | 12.02.2024 | 1, Male | Cardio-respiratory failure, predisposed with internal haemorrhage |
| 21 | Black buck | <i>Antelope cervicapra</i> | 23.02.2024 | 1, Male | Cardio-respiratory failure, predisposed with pneumonia |
| 22 | Black buck | <i>Antelope cervicapra</i> | 05.03.2024 | 1, Female | Cardio-respiratory failure, predisposed with chest injury, septicaemia |
| | | | | | |
| | | | | | |
| | | | | | |

| | BIRDS | | | | |
|---|----------------------|---------------------------------|------------|-----------|---|
| 1 | Budgerigar | <i>Melaopsittacus undulatus</i> | 8.04.23 | | Unknown etiology, carcass putrefied and damaged |
| 2 | Alexandrine Parakeet | <i>Psittacula eupatria</i> | 1.05.2023 | 1, Male | Heat stroke |
| 3 | Japanese quail | <i>Coturnix japonica</i> | 3.05.2023 | | Traumatic injury |
| 4 | Japanese quail | <i>Coturnix japonica</i> | 15.07.23 | 1, Male | Carcass decomposed , not suitable to perform P.M Examination |
| 5 | Japanese quail | <i>Coturnix japonica</i> | 11.08.23 | 1, Female | Died due to old age |
| 6 | Cockatiel | | 27.09.23 | 1, Female | Died due to enteritis |
| 7 | Emu | <i>Dromaius novaehollandiae</i> | 13.1.2024 | 1, Female | Cardio-respiratory failure, predisposed with enteritis |
| 8 | Red jungle fowl | <i>Gallus gallus</i> | 28.02.2024 | 1, Male | Cardio-respiratory failure, predisposed with head injury & shock |
| 9 | Silver pheasant | <i>Lophura nycthemera</i> | 02.03.2024 | 1, Female | Cardio-respiratory failure, predisposed with internal haemorrhage & hepatitis |
| | | | | | |
| | REPTILES | | | | |
| 1 | Indian star tortoise | <i>Geochelone elegans</i> | 19.01.2024 | 1, Female | Cardio-respiratory failure, predisposed with Egg bound condition & shock |

ZOO ACTIVITIES AT A GLANCE:

RESEARCH AND EDUCATION

EDUCATIONAL ACTIVITIES:

AWARNESS CAMPAIGN /EVENT CELEBRATIONS/OTHERS



Celebration of International Biodiversity Day- A seminar was **organized** to spread awareness about the importance of biodiversity.



Celebration of International Biodiversity Day -A painting competition was organized .



Celebration of World Environment Day-23 on this year's theme "BEAT PLASTIC POLLUTION" (Nest making)



Celebration of World Environment Day-23 on this year's theme "BEAT PLASTIC POLLUTION" (distribution of paper bags)



Celebration of International Vulture Awareness Day



Celebration of Wildlife Week. Organization of Quiz, Debate Fancy Dress parade and On the spot painting competition'



| | | |
|--|--|--|
| <p>On the occasion of World Sloth Bear Day, an informative Keeper Talk was organized.</p> | <p>Tata Steel Zoological Park celebrated its 34th Foundation Day</p> | <p>Celebration of World Wetland Day</p> |
|--|--|--|



Participation of Tata Zoo in National Drive "Swachhata Pakkhwada"
 -Taken pledge towards maintaining cleanliness
 -Awareness rally on "Swachhata Pakkhwada"



Touch and Learn



World Sparrow Day Celebration Campaign



Organisation of **Keeper talk** on African Grey Parrot , Black Buck ,Mugger and Gharial, Pea Fowl (National Bird of India) etc
BIOLOGICAL ACTIVITIES



Biological observation of Chicks of Grey Parrots

Behavioural Observation on the Adaptation of New Captive Environment by Gharial (*Gavialis gangeticus*)



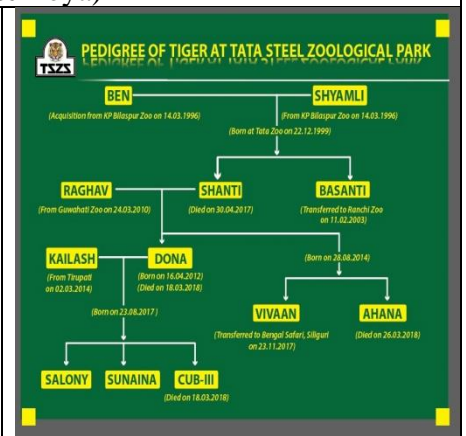
Behavioural Observation on the Adaptation of New Captive Environment by Blue-and-Yellow Macaw (*Ara ararauna*)



Leftover measurement of Blue-and-Yellow Macaw (*Ara ararauna*)



Introduction of Male and Female Lion (Jumbo & Zoya)



Installation of informative signages

ANIMAL UPKEEP AND MANAGEMENT IN CAPTIVITY

Ecological enrichment activities



Seasonal management for animals





Animal enclosure management



Breeding of animals and their care



Animal Health Care,



Organising Swachh Pakwada



International Yoga Day



Briefing & discussion on management of the Biomedical waste



Signing of bonus agreement



Staff annual health checkup



Treatment of Hog deer



Vaccination of animals



Suturing for a wound of Bonnet monkey



Suturing and fixing of opening in crop of African grey parrot

OTHERS



Meeting of Zoo purchasing committee



Meeting of Zoo Health advisory committee



Meetings of Zoo Civil construction committee



Zoo staff and officers meeting



In-house training of Zoo guides/Cart Drivers



Shri Kripal Singh, Tata Steel Limited taking a session on safety awareness

**Details on compliance of the conditions stipulated by the Central Zoo Authority
(as per the earlier letter of grant of recognition issued to the zoo)**

Letter No. (1) C. No. 146960, F. No. 19-47/92-CZA(52)(NE), dated 08.02.2021.

(2) F. No. 19-47/92-CZA(52)(Vol. V)(AK)/735/2017, dated 03.04.2017.

(3) F. No. 19-47/92-CZA(52)(Vol. IV)(M)/1962, dated 01.01.2013.

| Sr. No | Norm No. under RZR, 2009 | Condition Stipulated | Time Period to Comply | Since when pending | Remarks |
|--|--------------------------|--|-----------------------|---|--|
| | | | | Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo | Status with regard to compliance as noted physically by the evaluator during the visit |
| 1. General requirements | | | | | |
| 1 | 10.1(8) | One old obese Rhesus macaque with pendulous abdomen should be kept off-display. | Immediately. | 08.02.2021 | Complied |
| 2. Administrative and staffing pattern | | | | | |
| 2 | 10.2(2) | Scientific and technical staff specified in the Recognition of Zoo Rules, 2009, as applicable for a Medium Zoo should be appointed in the Zoo. | Sixty months. | 08.02.2021 | Complied |
| 4. Animal housing, display of animals and animal enclosures | | | | | |
| 3 | 10.4(3) | Enclosures and night shelters should be made rat-proof by fixing net on the drain outlets. | One month. | 08.02.2021 | Complied |
| 5. Upkeep and healthcare of animals | | | | | |
| 4 | 10.5(2) | For large cats, goat meat is being procured, which is not cost-effective. District administration should be approached for permitting supply of buffalo meat | Three months. | 08.02.2021 | Complied |

| | | | | | |
|--|-------------------------|--|------------------|------------|---|
| | | to the Zoo for the specific purpose of feeding the large carnivores in the Zoo. Guidance on the subject can be had from the in-charge, Bhagwan Birsa Biological Park, Ranchi. | | | |
| 5 | 10.5(2) | Random food and water samples are not being tested in a recognized laboratory. A system should be introduced for random checking of food and water on a regular basis and the sample reports should be properly documented and kept on record. | Two months. | 08.02.2021 | complied |
| 6 | 10.5(6) | Enclosures and night shelters of important species should have CCTV facility with monitors in rooms of Director and Veterinary Officer to keep a close watch on the health and behavioural disposition of animals. | Six months. | 08.02.2021 | Complied |
| 6. Veterinary and infrastructure facilities | | | | | |
| 7 | 10.6(3) & 10.7(4) | Post-mortem room needs to be modernized with an oil-fired incinerator instead of the present wood-fired one, which is not permitted by the CPCB/SPCB. Waste water from PM room needs to be collected in a pit outside and appropriately treated before being discharged. Also, the chimney of the present incinerator is surrounded by leaves and branches of adjacent trees. The chimney needs to be insulated from the surrounding vegetation to eliminate the possible fire hazard. | Eighteen months. | 08.02.2021 | New post-mortem house is being constructed including the incinerator (to be completed by 31 st March 2024) |
| 8 | 10.6(5) | Veterinary support staffs namely the Lab Assistant and the Stockman/Compounder should be appointed in the Zoo. | One year. | 08.02.2021 | Complied partly. Shall appoint soon. |
| 9 | 10.6(6) | Zoo management should have such an arrangement for animal diagnostics with a local veterinary | Four months. | 08.02.2021 | Complied |

| | | | | | |
|---|----------|---|------------------|----------------------------|--|
| | | college laboratory and should enter into a MoU with the local Veterinary College. | | | |
| 9. Acquisition and breeding of animals | | | | | |
| 10 | 10.9(4) | Efforts should be continued for pairing of remaining unpaired animals, viz. Bengal Eagle Owl, Hippo, Ring-Necked Pheasant, Bar-Headed Goose, Ostrich and Mugger. If pairing is not possible, it could be translocate to some other Zoo where its mate is available. | One year. | 08.02.2021 and 03.04.2017. | Efforts are being made to pair Sloth bear, Owl, Hippo and Mugger |
| 11 | 10.9(9) | Number of Nilgai, Chital and Blackbuck housed in the Zoo should be restricted to the prescribed number for a Medium Zoo and the Master Plan approved by the Central Zoo Authority. | Eighteen months. | 08.02.2021 and 03.04.2017. | Some surplus animal have been donated to Siliguri. |
| 12 | 10.9(10) | Although a Disaster Management Team (DMT) has been constituted under the Curator, there is no written Disaster Management Plan (DMO). Zoo authorities should formulate a DMP at the earliest to be followed by the DMT. | Six months. | 08.02.2021 | complied |

FREE RANGE BIODIVERSITY AT TATA STEEL ZOOLOGICAL PARK

| Sl no. | Common Name | Scientific Name |
|----------|---------------------------|---------------------------------|
| A | Class Aves | |
| 1 | Red Vented Bulbul | <i>Pycnonotus cafer</i> |
| 2 | Red whiskered bulbul | <i>Pycnonotus jocosus</i> |
| 3 | Grey Partridge | <i>Perdix perdix</i> |
| 4 | Stone Curlew | <i>Burhinus indicus</i> |
| 5 | Purple Sunbird | <i>Cinnyris asiaticus</i> |
| 6 | Hoopoe | <i>Upupa epops</i> |
| 7 | Golden Oriole | <i>Oriolus kundoo</i> |
| 8 | Coppersmith Barbet | <i>Psilopogon haemacephalus</i> |
| 9 | Common Mynah | <i>Acridotheres tristis</i> |
| 10 | Asian pied starling | <i>Gracupica contra</i> |
| 11 | Brahminy Mynah | <i>Sturnia pagodarum</i> |
| 12 | Small blue kingfisher | <i>Alcedo coerulescens</i> |
| 13 | White Breasted Kingfisher | <i>Halcyon smyrnensis</i> |
| 14 | Pied Kingfisher | <i>Ceryle rudis</i> |
| 15 | House Crow | <i>Corvus splendens</i> |
| 16 | Crow Pheasant | <i>Centropus sinensis</i> |
| 17 | Baya weaver | <i>Ploceus philippinus</i> |
| 18 | Black Kite | <i>Milvus migrans</i> |
| 19 | Red Breasted Parakeet | <i>Psittacula alexandri</i> |
| 20 | Large Indian Parakeet | <i>Psittacula eupatria</i> |
| 21 | Green Bee-Eater | <i>Merops orientalis</i> |
| 22 | Black Drongo | <i>Dicrurus macrocercus</i> |
| 23 | Magpie Robin | <i>Copsychus saularis</i> |
| 24 | Spotted Dove | <i>Spilopelia chinensis</i> |
| 25 | Ring Necked dove | <i>Streptopelia capicola</i> |
| 26 | Spotted munia | <i>Lonchura punctulata</i> |
| 27 | Rock Pigeon | <i>Columba livia domestica</i> |
| 28 | Little Cormorant | <i>Microcarbo niger</i> |
| 29 | Darter | <i>Anhinga melanogaster</i> |
| 30 | White Breasted Waterhen | <i>Amaurornis phoenicurus</i> |
| 31 | Lesser whistling teal | <i>Dendrocygna javanica</i> |
| 32 | Common Coot | <i>Fulica atra</i> |
| 33 | Bronze winged Jacana | <i>Metopidius indicus</i> |
| 34 | Pond heron | <i>Ardeola grayii</i> |
| 35 | Night heron | <i>Nycticorax nycticorax</i> |
| 36 | Cattle egret | <i>Bubulcus ibis</i> |
| 37 | Little Egret | <i>Egretta garzetta</i> |

| | | |
|----------|--------------------------|------------------------------|
| 38 | Asian Koel | <i>Eudynamys scolopaceus</i> |
| 39 | Grey-headed kingfisher | <i>Halcyon leucocephala</i> |
| 40 | Rufous Treepie | <i>Dendrocitta vagabunda</i> |
| | | |
| | | |
| | | |
| | | |
| B | Class Mammalia | |
| 1 | Jungle cat | <i>Felis Chaus</i> |
| 2 | Golden jackal | <i>Canis aureus</i> |
| 3 | Indian Flying fox | <i>Pteropus medius</i> |
| 4 | Lesser bandicoot rat | <i>Bandicota bengalensis</i> |
| 5 | Indian Grey Mongoose | <i>Urva edwardsii</i> |
| 6 | Indian palm squirrel | <i>Funambulus palmarum</i> |
| | | |
| | | |
| | | |
| | | |
| C | Class Reptilia | |
| 1 | Indian Rat Snake | <i>Ptyas mucosa</i> |
| 2 | Indian Rock Python | <i>Python molurus</i> |
| 3 | Checkered Keelback | <i>Fowlea piscator</i> |
| 4 | Common trinket | <i>Coelognathus helena</i> |
| 5 | Indian Cobra | <i>Naja naja</i> |
| 6 | Indian Soft shell turtle | <i>Nilssonia gangetica</i> |
| 7 | Bengal Monitor lizard | <i>Varanus bengalensis</i> |
| 8 | Common Chameleon | <i>Chamaeleo chamaeleon</i> |

TATA STEEL ZOOLOGICAL PARK
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PIN-831001

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