

Annual Report

2017

Report on the activities of Tata Steel Zoological Park for period APRIL, 2016 TO MARCH, 2017 is provided with supportive pictures of events. Status of compliance of conditions communicated vide CZA letter No.19-47/92-CZA(52)(VOL.V)/735/2017 DATED 03/04/2017

Annual report
of activities
2016-17



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TATA STEEL ZOOLOGICAL PARK

Tata Steel Zoological Park (Tata Zoo) is operated by Tata Steel Zoological Society. The Society was created by Tata Steel Limited as an autonomous body for overseeing the day to day operations.

Tata Zoo is located in the Jubilee Park and is spread over an area of 25 hectares with beautifully landscaped gardens interspersed with small forest patches with an abundance of free ranging birds, mammals, reptiles and amphibians. Tata Zoo was provided conditional recognition as a Medium category zoo by Central Zoo Authority u/s 38H of the Wild Life (Protection) Act, 1972 in March, 2017. The recognition to the zoo will expire by 21/03/2020.

ZOO ACTIVITIES AT A GLANCE [FOR PERIOD APRIL 2016- MARCH 2017]

ANIMAL HABITATS AND UPKEEP

Zoos are dynamic institutions and being public places are always under visitor scrutiny with respect to the facilities provided both for the animals and people. Thus changes are imminent to happen. The Central Zoo Authority has approved a long-term master plan for redevelopment of the zoo and the same is to be executed in next 20 years time frame.

During the year under report following activities were taken up as part of improving upon the existing enclosures and enhancing the enrichment activities to improve the condition of animal enclosures:

- To comply of the safety measures taken by Zoo management, there are 79 trees have been pruned and 18 dead trees cut down in and around animal enclosure. (Black buck enclosure, Sloth bear enclosure, Hippopotamus enclosure, Small mammals)
- Precaution and preventive measures taken against Avian Influenza outbreak like lime – bleach and kohrsolin solution regularly sprayed around all aviaries throughout the year.
- Ecological enrichment for captive animals like providing of wooden logs in display areas of porcupine cell and hyena enclosure for hiding purposes, Re-do of breeding hut of Indian Peacock and newly design perch Introduced for birds of World of Parrot.
- Couples of new initiatives taken for Feeding enrichment of primates and deers like, providing of ground nuts by wrapping in news paper and frozen fruits were provided to primates to keep them engage as well as feel cool in summer respectively. A handmade feeding stands of bamboo were installed in display area of Spotted deer and Black buck to provide fodder in a certain height like natural standing tree.
- List of wanted, surplus animals and animal Collection plan of the Zoo has been prepared and finalized.
- Sloth bear enclosure revamped with new feeding cells & a water body provided in the open paddock.



Wooden logs provided at Hyena enclosure for hiding

ANIMAL HEALTH CARE



Population control measures 'Vasectomy' by Zoo vet team

- All the large cats were vaccinated against Feline Pan Leucopenia, Calcivirus, Herpes Virus and Rabies infection using Biofel PCHR vaccine under annual vaccination Schedule. The cloven footed animals were vaccinated against FMD every nine months.

- Captive animals and birds were de-wormed on regular basis for reduction of Endo & Ecto parasites.

- Population control measures undertaken in herbivores. This year a total of 30 Vasectomies/ Castrations done in spotted deer and Black buck.

- A Zoo veterinary team through their regular intervention kept check of the injuries and surgical repair, if any, caused to animals due to infighting or otherwise.
- The rescue and rehabilitation of wild /stray animals is also executed by veterinary unit of the Zoo.
- In collaboration with Jharkhand Animal husbandry Department, Close observations were maintained by Zoo veterinary team throughout the year as a Precaution and preventive measures against Avian Influenza outbreak.
- Disease causing vectors were kept under check through regular tall grass cutting, keeping the hedges trimmed, spreading of lime bleach and fumigation.
- Births of important mammalian species like Mandrill monkey and Hog deer took place.

During the year under report, an amount of Rs.165.89 lakhs was incurred by Tata Steel Zoological Society to meet expenditure on animal care and their upkeep.

ACQUISITIONS, BIRTH, DEATH AND DISPOSAL OF ENDANGERED & IMPORTANT EXOTIC ANIMALS

During the year under report following acquisitions, birth, death and disposal of endangered animals in the zoo took place:

Sl.no	Name of Species	Sex				Remarks
		M	F	U	T	
ACQUISITION						
1.	Rhesus Macaque	0	2	0	0	Received from Forest Department
BIRTH						
Mammals						
1.	Northern plain grey langur	2	2	0	4	
2.	Black buck	0	0	18	18	
3.	Indian Hog deer	2	4	0	6	
Birds						
1.	Pea fowl	0	1	2	3	

Sl.no	Name of Species	Sex				Remarks
		M	F	U	T	
DEATH		M	F	U	T	Cause of death
Mammals						
1.	Black buck	7	0	10	7	Infighting and respiratory failure
2.	Northern plain grey langoor	2	1	0	3	Enteric infection and shock
3.	Leopard	0	1	0	1	Pulmonary failure
4.	Bonnet Monkey	0	1	0	1	Old age
5.	Indian Hog deer	2	2	1	5	Infighting
Birds						
1.	Indian Peafowl	0	2	2	4	Predation, Pneumonia, Respiratory failure
2.	Indian Peafowl (White)	0	1	0	1	Retention of egg and shock
3.	Hill Myna	0	0	2	2	Respiratory failure
Disposal		M	F	U	T	Remarks
Nil						Nil

HUMAN RESOURCE & CAPACITY BUILDING

- Zoo Director attended 4-days Annual conference of Indian Zoos on “Development of Roadmap for Indian Zoos” organised by Central Zoo Authority at Assam State Zoo cum Botanical Garden, Guwahati.
- A three-day visit to Alipore Zoo by Biologist cum Education Officer, TSZP from 14th-16th October to obtain first hand information on feeding behaviour of Zebra.
- Dy. Director cum Veterinary Officer attended workshop on Veterinary Health Care management of Reptiles at Chennai organized by Madras Crocodile Bank Trust from 16.01.17 to 18.01.17.

S.No.	Designation	Sanctioned post/posts	Incumbency
1.	Director	One	One
2.	Deputy Director	One	One
3.	Curator	One	One
4.	Biologist cum Education Officer	One	One
5.	Asst. Veterinary Officer	One	Vacant
6.	Office Supervisor	One	One
7.	Veterinary Assistant	One	Vacant
8.	Field supervisor	One	One
9.	Animal Keeper	Four	Four
10.	Asst. Animal Keeper	Eleven	Eight
11.	Field assistant	Two	Two
12.	Sr. Office Assistant	One	One
13.	Office Assistant	Two	Two
14.	Senior attendant	Two	Two
15.	Senior driver	One	One
	Total	Thirty one	Twenty

AWARENESS AND EDUCATION- MEETING THE AICHI BIODIVERSITY TARGET

The prime objective of Tata Steel Zoological Park is educating the visitors about wildlife conservation. To achieve its prime objective and in order to meet the AICHI TARGET-1 of the Strategic Plan for Biodiversity Conservation 2011-2020, Tata Zoo organizes various education activities throughout the year with support of local NGO's and sponsors. It encourages the youth to conserve and use it sustainably, especially the students of school and colleges. More than 16000 students were made aware of biodiversity and wildlife conservation through the above programs. More than 200 tree saplings were also planted during this period inside the Zoo campus. Major awareness activities undertaken during the year were:

- A. World Environment Day 2016:** On occasion of World Environment Day on 5th June 2016, the Tata Steel Zoological Park has embarked on a mission to enforce a ban on the entry of plastic bottles and polythene bags into the Zoo and has put in place stringent anti-littering measures within the Zoo premises.

To reduce the menace of plastic litter within the Zoo premises Zoo has organized a workshop on 4th June with the theme “**Best out of Waste**” i.e making of paper bags from the old news papers and other unused waste paper of the Zoo. The programme was organised during leisure period for the women working at Zoo in house- keeping jobs as they are playing important role in keeping the zoo premises clean. Next day, on 5th June, the day was started with taking oath by all zoo officers, staffs, contractual labours and security to **Save the Earth and conserve natural resources**. The paper bags made during the workshop of previous day has been distributed to all Zoo kiosk/restaurant owners, to serve food to visitors in these eco-friendly paper bags and to reiterate the ban of use of plastic items.

- B. Van Mahotsav 2016:** Tata Steel Zoo has been celebrating *Van Mahotsav* for many years with the sole intention of instilling and reinforcing the value of afforestation and seeks to promote inclusive participation in this initiative from diverse sections of the society from in and around Jamshedpur.



Tree plantation by Mrs. Ruchi Narendran, during *Van Mahaotsav*



A workshop on theme “Best out of Waste” during WED-16



Zoo staff taking oath during WED-16 to save the Earth

This year, Tata Steel Zoological Park was participated in Maga plantation drive “Mission Hariyali” within its premises, with the commemorative planting of ‘Sal’ saplings by first lady of Tata Steel Ltd. Mrs. Ruchi Narendran on 18th July 2016. The plantation programme has been continued till the end of the month and more than 200 saplings of different species were planted during the period.

C. Wildlife Week Celebrations 2016 Like every year, the Tata Steel Zoological Park, Jamshedpur was celebrated its highly anticipated Wildlife Week celebrations from 3rd to 7th October, 2016 by organising an array of events including Best Eco Club Award, Inter School Essay Competition, Inter School Debate Competition, Fancy Dress Competition and On The Spot Painting Competition. The celebration was formally inaugurated by the Chief Guest Shri S.N. Keolyar, I.F.S RCCF and Addl. PCCF, Singhbhum. There was an enthusiastic participation by local NGOs and Clubs. More than 600 students from 37 institutions across the city participated in all events during the week.



Inauguration of WLW-16 by Shri S.N. Keolyar, I.F.S Addl. PCCF, Singhbhum

D. Nature Camp: The Residential Nature Camp for Girl Students on Awareness on Biodiversity & Wildlife Conservation is being organized by the Tata Steel Zoological Society for the past 9 years since April 2007. This year the camp was organized from 20th to 22nd December 2016 in which 48 girls and four teachers from three schools were participated. The curriculum involved yoga, bird watching, skill development and local excursion to Dalma Wildlife Sanctuary. The objective of the camp is to promote each girl child's personal development, to inspire the young women of today to become environmentally responsible and conscientious citizens of tomorrow.



Camp participants in Yoga session

E. Animal Welfare Fortnight 2016: Tata Steel Zoological Park (TSZP) organized a two week-long celebration from 16th to 30th January on the occasion of Animal Welfare Fortnight 2017.



Exploration of Butterfly Park

A. To create awareness amongst people of Jamshedpur about the human treatment of animals and for prevention of unnecessary pain and suffering to them through informative and useful programme like Prabhat pheri and 'A Day in the Zoo' which included a slew of activities such as classroom lecture on needs of Animal Welfare, 'Keeper talk', 'Touch and learn', Zoo Visit and Exploring the Butterfly Park. An overall participation of 1260 participants from different schools and NGOs of the city

was a special highlight of the programme.

F. Prabhat Pheri: To spread the message of need of biodiversity conservation, the Zoo has intermittently organized Prabhat Pheri in conjunction with many zoo events. Prabhat Pheri involved students from schools and colleges from Jamshedpur, local NGOs etc.

G. Reaching out to the unreachable: This year,



Celebration of World Forestry Day and Water day



'Prabhat pheri' on Zoo Foundation Day

Tata Steel Zoological Park commemorated the World Forestry Day and Water day on 22nd March 2016 at Haramdih- Govindpur (Daldali Panchayat) in Jamshedpur Block of East Singhbhum District, to spread the message of conservation amongst the rural masses. More than 250 children from village schools were oriented on the need and importance of forest and water conservation.

Zoo volunteer Activity: Tata Zoo engages volunteers who wish to utilise their interest, energy, skills and time for Zoo education and research activities. They undertake various activities in order to increase awareness of the common people towards wildlife issues and concerns. This year Zoo has involved volunteers in ad-hoc basis to contribute towards education and awareness activities. Details of volunteer activities in 2016-17 are as follows:

Name of Volunteers	Duration	Nature of Work
i) Iram khanam, ii) Vinay Pandey, iii) Vidhan Sharma, iv) Sonali Kumari, v) Sweta kumari	During Wildlife week from 15 th September to 7th October, 2016.	Assisting in Preparation and organizing the Wildlife week Celebration- 2016.
i) Iram khanam, ii) Vinay Pandey,	During Residential Nature camp from 28 th November to 22 nd December, 2016.	Assisting in Preparation and organizing the Residential Nature Camp- 2016.

CALL OF WILD (ZOO VISIT)

During the year under report from 1st April, 2015 to 31st March, 2016, the Zoo was physically visited by 458667 visitors. During this period, the Zoo was visited by eminent personalities like

The Zoo has a website of its own <http://www.tatazoo.com> and a Facebook profile <http://facebook.com/jamshedpurzoo>. Total site visits between 1/4/16 to 31/3/17- 9465 out of which 8273 are new visitors. Site was visited by people from 76 countries including India. 83% being Indian, 5% being Americans, 4% British and 8% from rest 73 countries. The Zoo has 1224 friends on Facebook. Google rating of zoological park is 4.3. These platforms are utilized by the Zoo to engage visitors and convey its ideology and mission among the people at large. TripAdvisor has

ranked the Zoological park as the 3rd most visited locale in Jamshedpur and has handed over a 'Certificate of Excellence' on the basis of visitor feedback.

RESCUE AND REHABILITATION OF WILD ANIMALS

The Zoo is nestled in close proximity to the Dalma Wild Life Sanctuary. Owing to this, the zoo is involved on regular basis in rescue and rehabilitation of wild animals with active support from the Forest Department. During the year under report various species of animals rescued by the Forest Department and locals either in injured or orphaned condition were provided veterinary care at Zoo Veterinary Hospital before being rehabilitated back to their wild habitat.

List of rescues attended during 2016-17 are provided below:

Sl.no	Name of Species	No. of Specimen	Date	Cause of rescue	Action Taken/ Outcome
1.	Hanuman Langur	Two (male)	17.04.16 & 23.02.17	<ul style="list-style-type: none"> One injured langur rescued by forest department and handed over to zoo for treatment One is caught within zoo premises as it was threat to the resident Langurs and visitors. 	Treated and released in forest
2	Rhesus monkey	Two (Male) Three (Male-1 Female-1 Unsexed-1)	12.06.16 & 11.11.16 12.03.17	<ul style="list-style-type: none"> Rescued from TISCO works and town area respectively. Seized by forest department and handed over to Zoo for care and treatment 	Treated and Released in forest Still in zoo in quarantine area
3.	Barking deer fawn	One (Female)	25.08.16	Rescued from forest area by forest department having complain of unable to stand / walk and was also abandoned from group.	Treated for two days in zoo veterinary hospital thereafter, released in same area of forest.
4.	Indian Porcupine	One (male)	26.10.16	Rescued from forest by forest department and handed over to zoo for treatment having multiple site infected wound.	Five days kept in hospital for treatment but animal died due to septicaemia and shock.
5.	Rat snake	One (Unsexed)	16.07.16	Captured from zoo aviary	Released in forest
6.	Python	One (Unsexed)	25.07.16	Captured from Pheasant cage in hospital	Released in forest

ZOO ADMINISTRATION AND FINANCIAL PERFORMANCE

ADMINISTRATION:

Overall administrative control of the Zoo lies with the Director. Key functional areas being overseen by the Director are General administration, Planning and Development, Revenue and

Security of the zoo. The Director is assisted in his work by an Office supervisor, two Office assistant, a Sr. attendant and a Sr. driver.

Deputy Director in association with the Asst. vet (Para) looks after the upkeep and Health care of animals. Major activities of the team being health care of animals, maintenance(civil) of animal enclosures and general hygiene in zoo campus. The team is assisted by a Field Supervisor, a Sr. Zoo assistant and two field assistants.

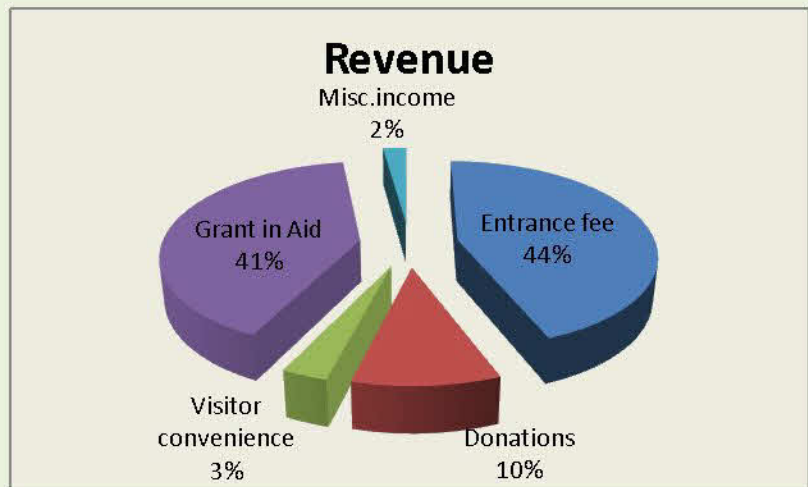
Curator looks after the general maintenance of animal enclosures, feeding of the animals and disinfection of enclosures. He also oversees the enrichment of animal enclosures. All Keeper and Asst. keepers reports to the Curator. The Curator is assisted in his day to day work by animal keepers.

Biologist cum Education officer takes care of recording of animal behavior, maintaining of animal inventory, studbooks, organising awareness / educational programmes including running of the zoo information centre cum library and Zoo Garden activities including plantations. The Biologist is assisted by an office attendant and volunteers.

FINANCIAL PERFORMANCE

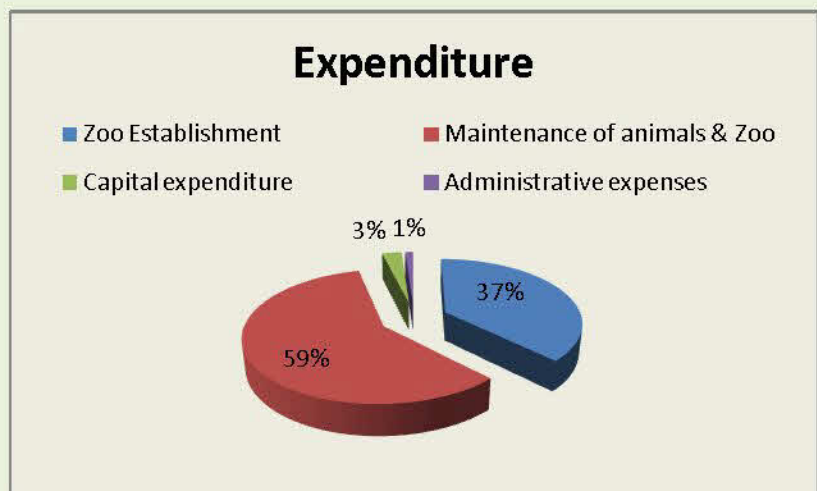
Revenue:

Tata Steel Limited during the financial year 2016-17 provided Grant in Aid of Rs. 114 lakhs to Tata Steel Zoological Society for annual maintenance & operation of Tata Zoo. The Society through the zoo generated revenue worth Rs.166 Lakhs. Major revenue earnings were through entry fee, contracts and donations.



Expenditure:

Total amount spent by Tata Steel Zoological Society during 2016-17 for operating zoo was Rs.283/-lakh, major expenditure being on establishment and maintenance of animals and their enclosures. The deficit in revenue and expenditure being Rs.3.0 Lakhs.



**STATUS OF COMPLIANCE W.R.T CONDITIONS CONVEYED BY CENTRAL ZOO
AUTHORITY VIDE THEIR LETTER NO.19-47/92-CZA(52)(VOL.V)/735/2017 DATED 03/04/2017**

S.No.	Norm No.	Violation of Recognition of Zoo Rules, 2009	Status of compliance as on 31/05/2017
1. General requirements			
1	10.1(9)	The Guinea fowls housed next to Red jungle fowl aviary should be removed from the zoo.	Request for review of the condition as they are endemic to Africa & found wild in nature.
3. Development and Planning			
2	10.3(6)	The Zoo has not adopted population control measures for the excess population of herbivores (Spotted deer & Blackbuck). Efforts should be made to control their population immediately.	Population control measures are underway. 33 male spotted deer have been sterilised
4. Animal housing, display of animals and animal enclosures			
3	10.4(2)	The present area (3.5 Hectares) of the Herbivore Safari does not meet minimum specification of the Central Zoo Authority. The Zoo should increase the area of the Herbivore Safari to 30 Hectares.	Area for increasing the space of safari park does not exist. Masterplan is being revisited to convert the same into a composite enclosure only, and stopping plying of vehicle.
4	10.4(2)	Enclosure for Rhesus macaque does not meet the minimum dimension requirement as of prescribed by the CZA. The same should be provided with the size as prescribed by the CZA.	Master plan is being revisited to accommodate creation of a new enclosure for Rhesus macaque.
5	10.4(3)	A rusted frame made of metal lying inside the enclosure for Common Langur should be removed as it may injure the animals housed therein. Instead the Zoo may provide large wooden logs.	Done
9. Acquisition and breeding of Animals			
6	10.9(3)	The Zoo should find appropriate mate for single Hippo & Mugger. They should either be paired or be sent to nearby recognised Zoos on breeding loan.	We are seeking information from other Indian zoos for the purpose
2. Administrative and staffing pattern			
1	10.2(2)	It is understood that the Zoo is in the process of appointing the Junior Veterinary Officer. It is suggested that while appointing the Veterinary Officer, preference should be given to those who have experience in Wildlife & Zoo Animal Management.	Noted

S.No.	Norm No.	Violation of Recognition of Zoo Rules, 2009	Status of compliance as on 31/05/2017
3. Developing and Planning			
2	10.3(5)	The natural landscape of the Zoo and animal enclosures should be kept clean in such a way that hygiene at the Zoo is not affected.	In process
3	10.3(6)	The Rhesus macaque and Common Langur housed at the Zoo should be provided animals enclosure of the dimension as prescribed by the CZA else these animals may be shifted to a recognised Zoo after screening their health and following the protocols and prior approval from CZA.	Master plan is being revisited to accommodate creation of a new enclosure for Rhesus macaque. Feeding cells of Common langur is under renovation
4	10.3(7)	The isolation and Quarantine wards should be improved with respect to space and hygiene.	In process
4. Animal housing, display of animals and animal enclosures			
5	10.4(1)	Animal houses of Zebra and Blackbuck towards the visitors pathway should be camouflaged by planting trees, bushes and climbers.	In process
6	10.4(1)	The Night house in the enclosure for Spotted deer is visible to the visitors. It should be screened by planting appropriate trees/shrubs.	In process
7	10.4(1)	The Keeper's entry to enclosure for the Barking deer and Hog deer has been provided on front side towards the visitors viewing side. The same should be shifted away from visitors' pathway.	In process
8	10.4(1)	The Machan restaurant which is not in operation, it should be covered suitably to avoid unpleasant look to the visitors.	Done
9	10.4(1.3 & 9)	Rusted chain-link steel pipes, stand-off barriers used at various enclosures and aviaries should be repaired/replaced and painted with olive green colour. The stand-off barrier should follow a uniform design in the Zoo.	In process, Tender floated
10	10.4(2)	Old abandoned aviary next to enclosure for Capuchin monkey should be demolished.	In process
11	10.4(2)	Kraal of the African lion (40 Sq. mtrs.) and Bengal tiger (64 Sq. mtrs.) are very small. Its size should be increased to at least 100 Sq.mtrs. As per CZA's norms. Further Zoo may opt for construction of additional Kraals since it was seen that Zoo is housing 2 -4 animals together in a Kraal.	Masterplan being revisited to relocate the lion & tiger enclosure. Committee constituted for the same

S.No.	Norm No.	Violation of Recognition of Zoo Rules, 2009	Status of compliance as on 31/05/2017
12	10.4(2)	Kraal in the enclosure for Sloth bear should have adequate sun light and aeration.	Done
13	10.4(3)	Pots made of Plastic used in the Zoo to provide food & drinking water to the animals should be replaced.	Done
14	10.4(3)	Gharial and Mugger enclosures as well as others should be planted with live plants, bushes & grass of various species as per physical need of the animals housed therein. These enclosures should be filled with additional sand/soil for basking preferably around the water pool to facilitate easy climbing of animal from the water body.	In process
15	10.4(3)	Keeper's entry gate provided towards visitors side in most Herbivore enclosures may be shifted to an appropriate place away from visitors' reach.	In process
16	10.4(6)	New aviaries for Pheasants constructed in the Zoo may be provided with appropriate size wooden logs as an enrichment of the pheasants.	In process
17	10.4(6)	The iron pipes used in aviaries either to be covered by jute rope or should be replaced with Bamboo or Wooden logs.	In process
18	10.4(6)	The new aviaries constructed at the Zoo to house exotic birds should be provided adequate enrichment artefacts.	In process
5. Upkeep and healthcare of animals			
19	10.5(2)	The feed trough provided to the Ostrich is too high. The height of the same should be reduced.	Done

**TATA STEEL ZOOLOGICAL PARK, JAMSHEDPUR
(AT A GLANCE)**

Total Zoo area : 25 Hectares
 Developed area : 20 Hectares
 Zoo Timing : 9.00 am to 5.00 pm.
 Close Day : Monday
 No. of Species : Mammals-20, Birds- 25 and Reptiles-4
 No of Animals : 490
 No. of Visitors (2016-17) : 4.61 lakhs
Fees & Rates levied from public

S.No	Particulars of fee & rates	Amount levied (In rupees)	Remarks
A	Entry fee to zoo		
	Adult (per person)	30.00	
	Child (per child between age 3 to 12 years)	20.00	
	Organised school group visit		Flat Rs. 5/- discount on each ticket only for children (For 10 or more children in a group)
	Group Visits		Flat Rs. 5/- discount on each ticket (For 10 or more members in a group)
	Children from disturbed areas of Jharkhand & underprivileged class of society	Free on week days and 50% concession on weekend & public holidays	To be supported with valid documents declaring their status
B	Bird watching (between 5 AM & 8 AM) Monthly fee per person	300.00	Annual fees is Rs.3600/- per person
	Senior citizens (per month)	150.00	Annual fees is Rs.1800/- per person
C	Boating (for 30 minutes)		
	Two Seater	30.00	
	Four seater	60.00	
D	Safari ride (Bus)		
	Minimum hiring charges for full bus (one round)	100.00	Minimum occupancy of 10 people or payment of hiring charges of bus
	Per seat charge	10.00	
E	Use of Nature Education Centre (Zoo hours)		Service tax extra
	Full day	6000.00	

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