

# MAHATMA GANDHI ZOO

SOLAPUR MUNICIPAL CORPORATION

SOLAPUR (MAHARASHTRA STATE)



## ANNUAL REPORT

FOR THE YEAR

2017-18

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## **1. Report of the Officer-in-charge**

It is my immense pleasure to present the annual report of Mahatma Gandhi Zoo for the year 2017-18. New infrastructure developmental activities planned in the preceding year were successfully completed. Since I have an educational background of Master in Veterinary Extension Education and Management. I have keen interest in the activities of Zoo department of the Solapur Municipal Corporation, Solapur (Maharashtra State).

This year, during wildlife week many activities are conducted for various target groups such as Environmental awareness programme, creating wildlife conservation awareness amongst the schools and citizens and celebrating various environmental days on regular basis.

Wildlife week had enthusiastically celebrated this year too with loads of activities. The educational activities in the zoo are needed to be enhanced with the public participation at large.

Popularity of M. G. Zoo is increasingly progressively with the help of well management, cleanliness, advertising by “ Google Map ” as well as “ Just Dial ”. As compare to last 2 years, around 1,50,000 visitors visited this year.

In future we will develop the new animal enclosures, collecting the new animals, updating the amenities for visitors, promoting the educational activities through Mahatma Gandhi Zoo.

I am very much thankful to Municipal Commissioner Dr. Avinash Dhakane has given us time to time his support for developmental activities in the Zoo.

With Warm Regards,



**DR. SHUBHANGI TAJANE - VASULKAR**  
I/c. Zoo Director.

## **2. History of the Zoo**

In the year 1977, Honourable Shri. Sundaram, Commissioner, Solapur Municipal Corporation has initiated the zoo with financial aid of Municipal Corporation and from Damani Family of Jam Mills, Solapur, initially the animals like Tiger, Python, Pelican, Crocodile etc., possessed by Johnson Zoo were purchased. Pair of Lions from Sayaji Park, Baroda (Gujarat) were purchased, further in exchange of Cubs, Spotted Deers from Kanpur Zoo and Monkeys and other birds from zoos all over India were brought and zoo had come into existence in the year 1981, a pair of Leopard and in the year 1990 pair of a Tiger was brought from Nandan Kaman Zoological Park, Bhuvaneshwar. The strength of leopard was further increased by addition of pair of leopard from forest department of Manchar, Dist- Pune.

## **3. Vision**

Education and research through entertainment and conversation of endangered species, flora and fauna.

## **4. Mission**

1. To create naturist habitat to the species while safe and enjoyable exhibits to visitors.
2. To impart education and to create facilities for research of species, flora and fauna.
3. To provide entertainment and modern amenities to the visitors.
4. To complement the national efforts in conversation rough planned co-coordinated breeding of species of the region & collaborative research.

## **5. Objectives**

1. Education of public with special emphasis on environment, ecology and zoology.
2. Conservation of endangered species, plants and animals in most Naturalistic environment.
3. Research on specific species.
4. Recreation of visitors.
5. Recreation and relaxation of mind and spirit in healthy atmosphere.

## 6. About Us

S.No.	Particulars	Information
<b>Basic Information about the Zoo</b>		
1	Name of the Zoo	<b>MAHATMA GANDHI ZOO</b>
2	Year of Establishment	<b>1977</b>
3	Address of the Zoo	<b>Near Revan Siddheshwar Temple, Opposite to Kambar Talav, Soninagar, Solapur.</b>
4	State	<b>MAHARASHTRA STATE.</b>
5	Telephone Number	<b>+91 9096329210</b>
6	Fax Number	<b>--</b>
7	E-mail address	<b>drshubhangi1@rediffmail.com</b>
8	Website	<b>www.solapurcorporation.gov.in</b>
9	Distance from nearest	Airport: --
		Railway Station : <b>2 km</b>
		Bus Stand : <b>3 km</b>
10	Recognition Valid up to (Date)	<b>05/05/2017</b>
11	Category of zoo	<b>Mini zoo</b>
12	Area (in Hectares)	<b>23.5 hectares</b>
13	Number of Visitors (Financial Year)	Adult : <b>56,902</b>
		Children : <b>52,257</b>
		Total Visitors : <b>1,09,160</b>
		Total Foreigners : --
		Total Visitors:
14	Visitors' Facilities Available in Zoo	1. 30 % concession facilities for school & college student's education trips. 2. Free of cost visit for senior citizens. 3. Wheel chair facility started for Divyang / handicapped visitors. 4. Hygienic toilets available for visitors.
15	Weekly Closure Day of the Zoo	<b>Thursday</b>

S.No.	Particulars	Information
<b>Management Personnel of the Zoo</b>		
16	Name with designation of the Officer in-charge	<b>Dr. Shubhangi Tajane - Vasulkar</b> <b>I/c. Zoo Director</b>
	Name of the Veterinary Officer	<b>Dr. Shubhangi Tajane - Vasulkar</b>
	Name of the Curator	<b>Vacant</b>
	Name of the Biologist	<b>Vacant</b>
	Name of the Education Officer	<b>Vacant</b>
	Name of the Compounder/ Lab Assistant /Animal Keeper	<b>Bharat Shinde</b>
<b>Owner / Operator of the Zoo</b> : The Commissioner, Solapur Municipal Corporation, Solapur (Maharashtra State)		
17	Name of the Operator	<b>Dr. Avinash Dhakane</b>
18	Address of the Operator	<b>Solapur Municipal Corporation.</b>
19	Contact details/Phone number of Operator	<b>0217-2735300</b>
20	E-mail address of Operator	<b>smccommissioner@yahoo.com</b>

## **8. Human Resources**

### **Manpower of the Zoo**

S.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1.	Veterinary Officer	01	
2.	Biologist	00	
3.	Animal Keeper	01	
4.	Zoo Labour	17	
5.	Cleaner	01	
6.	Security Guard	06	

## 9. Capacity Building of Zoo Personnel

S. No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
	N. A.			

## 10. Zoo Advisory Committee

- Dr .Brijmohan Gupta, Evaluation and Monitoring Officer, CZA, New Delhi visited at M. G. Zoo for Annual Evaluation and given instructions for development of Zoo on dated 17/10/2017.



- Mr. Sudhakar Dole, Member Secretary and Dr. Nilam Kumar Khaire, Member of MZA visited to M. G. Zoo on dated 26/01/2018 and given instructions for development of Zoo.





- **Dates on which Meetings held during the year**

Attended a quarterly meeting at Maharashtra Zoo Authority on dated 15/03/2018 on financial and developmental activity of Zoo.



## **12. Statement of Income and Expenditure of the Zoo**

### **Income Statement for the year 2017-18**

<b>Month</b>	<b>Income in Rs.</b>
April, 2017	1,00,600
May, 2017	1,69,450
June, 2017	55,740
July, 2017	1,10,220
August, 2017	84,320
September, 2017	55,110
October, 2017	92,180
November, 2017	98,769
Decemder, 2017	1,33,447
Januray, 2018	1,32,333
Feburary, 2018	1,01,083
March, 2018	86,062
<b>Total:-</b>	<b>12,19,314</b>

**Expenditure for the Year 2017-18**

<b>Expenditure Description</b>	<b>Amount in Rs.</b>
Workers' salary expenditure	8,75,265
Beef, chicken, Eggs	16,68,730
Dog catching	1,81,670
Vegetables	32,55,304
Fruits	3,99,174
Food grains	17,42,800
Security	91,200
Zoo renovation	10,000
Zoo book printing	68,000
<b>Total:-</b>	<b>83,92,143</b>

**13. Daily feed Schedule of Animals**

S.No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1.	Leopards	Beef	5 kg per animal	4 kg per animal	Thursday
2.	Crocodile	Beef and Chicken	10 kg	10kg	Thursday
3.	Monkey	Boiled egg	14	14	Thursday

Species	No. of Species	Per animal requirement	Green Grass (Lasun Ghas+Kadvad+Palak) (In Kg.)	Kakadi (In Kg.)
Chital	43	5kg	215	10
Sambar - deer	6	10kg	60	10
Blackbuck	32	3kg	96	8
<b>Total</b>			<b>371</b>	<b>28</b>

Species	No. of Species	Per animal requirement	Wheat Barn (In Kg.)	Banana
Chital	43	0.9	38.7	50
Sambar deer	6	1.5	9	60
Blackbuck	32	0.6	19.2	50
<b>Total</b>			<b>66.9</b>	<b>160</b>

Species	No. of Species	Per animal requirement	Fodder Grass (In Kg.)	Kobi (In Kg)
Chital	43	12	516	1
Sambar deer	6	20	120	1
Blackbuck	32	10	320	1
<b>Total</b>			<b>956</b>	<b>3</b>

#### **14. Vaccination Schedule of animals**

S.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Leopard	Feline Rhinotracheitis, Feline Calcivirus and Feine Enteritis	Fel – O- Vax- 1ml	Annually	
2	All Birds	Raniket Disease	F1 Lasota Strain Vaccine For RD	Annually	
3	Primates	Rabbies	Inj Abhayrab/ Inj Rabigenmono	Annually	
			Inj.Tetanus	Annually	

## 15. De-worming Schedule of Animals

Species	Drug used	Month
Leopard, Monkey	Albomar	4 Sept., 2017
Black Buck, Spotted Deer, Sambar	Febendazole	5 Sept., 2017
Birds	Piparazine	5 Sept., 2017
Leopard, Monkey	Olgard	5 Nov., 2017
Black Buck, Spotted Deer, Sambar	Olgard	
Leopard, Monkey	Albomar	22 Feb., 2018
Black Buck, Spotted Deer, Sambar	Febendazole	

## 16. Disinfection Schedule

S.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1.	Leopard (4)	Closed	Potassium Permagnet	4 days interval
2.	Monkey (3)			
3.	Birds (12)			
4.	Black Buck	Open		
5.	Sambar			
6.	Spotted Deer			

## 17. Health Check-up of employees for zoonotic diseases

Aastha-3  
सोलापूर महानगरपालिका

जाक्र/आअ/आस्था-३/२१९  
आरोग्याधिकारी यांचे कार्यालय  
दि.३०/०५/२०१८

प्रति,  
पशुवैद्यकीय अधिकारी,  
सोलापूर महानगरपालिका.

**विषय - महात्मा गांधी प्राणी संग्रालयमधील कर्मचाऱ्यांचे आरोग्य शिबीराबाबत**

उपरोक्त विषयास अनुसरून आपले पत्राप्रमाणे C.Z.A. च्या सुचनेप्रमाणे महात्मा गांधी प्राणी संग्रालयाकडील खालील सेवकांचे दि. ०७/१०/२०१७ रोजी आरोग्य शिबीर घेण्यात आलेले होते. सदर शिबीरामध्ये, सदर सेवकांचे T.T. लसीकरण, T.B. तपासणी व रेबीज लसीकरण करण्यात आलेले आहे.

तपासणी करण्यात आलेल्या सेवकांचा तपशील खालील प्रमाणे आहे.

अ. क्र.	सेवकांचे नाव	पदनाम	क्षयरोगासाठी करण्यात आलेली चाचणी	शेरा
१	सिद्राम विठ्ठल बाघमारे	मजुर	Tuberculin Test	-ve
२	आनंद जगन्नाथ कुलकर्णी	मजुर	Tuberculin Test	-ve
३	श्रीमंत भिमशा अस्वले	मजुर	Tuberculin Test	-ve
४	पीरसाब कालासो शेख	मजुर	Tuberculin Test	-ve
५	मुर्तुज गनी शेख	मजुर	Tuberculin Test	-ve
६	यल्लप्पा पिरप्पा डांगे	मजुर	Tuberculin Test	-ve
७	विठ्ठल भिमशा हाले	मजुर	Tuberculin Test	-ve
८	बालअन्सर जाफर जमादार	मजुर	Tuberculin Test	-ve
९	विठोबा आनंद भुसारे	मजुर	Tuberculin Test	-ve
१०	हानुमंत विठ्ठल बाघमारे	मजुर	Tuberculin Test	-ve
११	तिमण्णा मरेप्पा पापस	मजुर	Tuberculin Test	-ve
१२	अंबण्णा सिध्दप्पा क्षिरसागर	मजुर	Tuberculin Test	-ve
१३	मारुती सिद्राम केगार	मजुर	Tuberculin Test	-ve
१४	बालस्वामी सबस्टोन	मजुर	Tuberculin Test	-ve
१५	आंबुबाई भंडारी	मजुर	Tuberculin Test	-ve
१६	चंद्रकांत शरणपा कोलूर	मजुर	Tuberculin Test	-ve

३०.५.१८  
३९१५१८  
hubbangi

आरोग्याधिकारी  
सोलापूर महानगरपालिका

526

S.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	All Zoo Staff	Labour	7/10/2017	Result are -ve for all

## **18. Development Works carried out in the zoo during the year**

- SMC has allocated Rs.1.25 Cr. Budget and work is started in January, 2018, which is expected to complete by October, 2018. New perimeter wall work is under progress around the zoo .This is 1.50 m (6 inch) thick, 747 m length, Concrete wall height 2.40 m, chain link fencing wall 1.60 m., Total height of 14 ft. (4.5 meter.) with Bar bending (1.75m)



Figure: 1 - Old wall compound



Figure: 2 -construction of RCC wall compound is under process

- In front of Mahatma Gandhi Zoo gate, there is road work going on to avoid inconvenience of the public.



- Earthworm Compost plant implemented in the zoo and using this fertilizer for planting.



- Security of animals and area is a major problem of Zoo. C.C.T.V cameras are installed at various prime locations in the Zoo.

## **19. Education and Awareness programmes during the year 2017-18**

### ***Events:***

- ***“Prakruti, Paryavaran Aur Hum-Green March” and “Wild Life Celebration Day”:***

A Educational Programme conducted on the occasion of “Prakruti, Paryavaran Aur Hum- Green March” and “Wild Life Celebration Week” on dated 2 October, 2017. More than 500 Students are Participated from 15 schools. In this Programme Hon. Mrs. Shobhatai Banshetty, Mayor of Solapur Municipal Corporation, Solapur, Dr. Avinash Dhakane, Commissioner of Solapur Municipal Corporation, Mr. Shrikant Michalwar, Additional Commissioner of Solapur Municipal Corporation, Mr. Chalwadi, City Engineer, Solapur Municipal Corporation, Dr. Dinkar Borde, District Deputy Commissioner of Animal Husbandry, Solapur, Dr. Rajkumar Vasulkar, Project Co-ordinator, Maharashtra Livestock Development Board, Akola, Mrs. Jyoti, Branch Manager, Bank of India, Mr. Raval, Zonal Manager, Bank of India are attended the programme. We were presented Power point presentation on

habitat of Wildlife Animals In front of students & Teachers. We were conducted many activities for students such like General Knowledge, quiz on Environment, etc. All students were involved actively in this programme.





- **Children’s Day:** “Children’s Day Celebrated” on 14<sup>th</sup> November, 2017 for selected students of pre-primary and primary schools. Given them information about wild animals, our nature and also different sounds of animals and birds. All children’s participation was joyful.



- **World Wildlife Day :** celebrated on 3 March 2018. On this Educational Programme, M.Sc.-II year Zoology students from Dayanand Arts and Science College, Solapur involved on a theme. “World Wildlife Day” is “Big Cats–Predators under Threat”. We delivered a lecture on Man Vs. Wild Animals conflicts. It was a fruitful discussion session with M.Sc.–Zoology students.



- **World Sparrow Day** : 20<sup>th</sup> March 2018 celebrated with our colleagues and Animal Keeper Mr. Bharat Shinde, Animal Rahat Team Dr. Rakesh Chittoda, Dr.Varsha, Mr. Bhimashankar Vijapure, Mr. Anand Birajdar, Animal Lover Pappu Jamadar, Mr. Mukund Shete.



- **Swachhata Abhiyan** : with school volunteers from St. Thomas School, Mahapalika's School etc. More than 400 volunteers are participated in month of October 2018 at Zoo. We delivered a short lecture on environment.



- **World Tiger Day** : On 29th July 2017 World Tiger Day was celebrated with Sinhgargh Public School. In which 100 students and 15 teachers were participated. Introductory talk given by Mr. Bharat Shinde, Animal Keeper. Director Zoo cum Veterinary Officer, Dr. Shubhangi Tajane - Vasulkar gave interactive talk on Tiger.



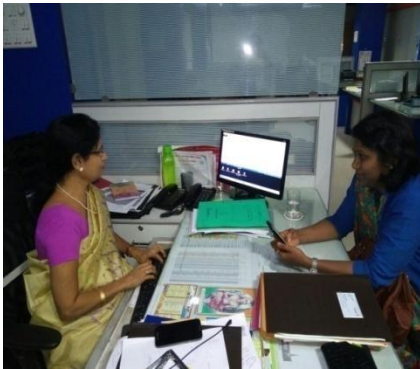
- **Awareness Programme** : Awareness programme taken at Shanti English Medium School on dated 13/3/2018. Given a short lecture on wildlife awareness by Dr. Shubhangi Tajane - Vasulkar, Veterinary Officer cum Zoo Incharge.



## 20. Important Events and happenings in the Zoo

### *Other Happenings:*

- Due to lack of funds, Mahatma Gandhi Zoo was unable to do any constructive work. As a solution M.G. Zoo, Solapur Municipal Corporation has approached to Bank of India for further developmental work. Meeting with Bank of India done on dated 22/9/2017. With the help of Bank of India, prepared signing boards, purchased dustbins, installation of C.C.T.V. Cameras. Other facilities are in under process i.e. e-ticketing, kid's entertainment, RO water etc.



- **Forest Department Award** : Government of Maharashtra inaugurated 13 crores plantation and implemented in the surroundings of Solapur city. On this occasion of inauguration of 13 crore plantation, Forest department awarded to Dr. Shubhangi Tajane- Vasulkar by Dr. Rajendra Bhosale, District Collector, Solapur & Mr. Rajendra Bharud, Chief Executive Officer for her best work done for wild animals.



- **Swachha Bharat Pakhawada** : celebrated by Bank of India with all BOI branches of Solapur city at Mahatma Gandhi Zoo on dated 26/01/2018.



## 21. Seasonal special arrangements for upkeep of animals

- Under the summer management programme Electrolyte powder was given in drinking water to Leopard, Monkey and Birds.
- For protection from heat stroke, Zoo has been arranged air cooler facilities, wet land, Green net shed etc.
- Pest controlling done outside the enclosures on dated 18/9/2017.
- Precautions always taken for FMD outbreaks. Our team done Potassium Paramagnet solutions.



बिबट्यासाठी कूल...कूल...कूलर....!



सोलापूर : महात्मा गांधी प्राणी संग्रहालयातील बिबट्यांना सोलापुर्तील उन्हाळ्याच्या झळांचा त्रास होऊ नये यासाठी लावण्यात आलेला कूलर.  
(छायाचित्र : विजयकुमार सोनवणे)



- **List of animals required in the zoo**

Required Animals	Scientific Name	M	F	U	Total
Lion Hybrid	<i>Pantheraleo</i>	1	1	0	2
Royal Bengal Tiger	<i>Panthera tigris</i>	1	1	0	2
Sloth Bear	<i>Melursus ursinus</i>	1	1	0	2
White Peacock	<i>Pavocristatus</i>	1	1	0	2
Jackal	<i>Canis aureus</i>	1	1	0	2
Emu		1	1		2
Pheasant Golden	<i>Chrysolophus pictus</i>	0	1	0	1
Cobra Indian	<i>Naja naja</i>	1	0	0	1
Wolf Indian	<i>Canis lupus pallipes</i>	1	1	0	2
Porcupine Indian Crested	<i>Hystrix indica</i>	0	1	0	1
		<b>8</b>	<b>9</b>	<b>0</b>	<b>17</b>

- **List of surplus animals in the zoo**

Surplus Animal	Scientific Name	M	F	U	Total
Bonnet Macaque	<i>Macaca radiata</i>	1	1	0	2
Rhesus Macaque	<i>Macaca mulatta</i>	2	0	0	2
Black Buck	<i>Antelope cervicapra</i>	10	7	0	17
Spotted Deer	<i>Axis</i>	9	12	0	21
Sambhar Deer	<i>Rusa unicolor</i>	1	1	0	2
Marsh Crocodile	<i>Crocodylus palustris</i>	0	0	15	15

## **22. Research Work carried out and publications**

- A total no. of 10 students learning in B.Sc.–II year from Walchand College of Science, Solapur visited Mahatma Gandhi Zoo for animal behaviour study on dated 10/12/2017.
- A total no. of 35 students from Dayanand College visited as a study tour programme at Mahatma Gandhi Zoo on dated 5/1/2018.

- A total no. of 20 students from Parbhani Veterinary College attended internship programme from 25/1/2018 to 9/2/2018 in two consecutive batches.



### Projects work by PG students

- Project done on “Study of Zoo Animal Diseases of Mahatma Gandhi Zoo” by Shruti Chandrakant Sangar, M.Sc.-II –Zoology, D.B.F Dayanand college of Art and Science, Solapur. In this manuscript we provide key information regarding zoonotic diseases and also recommend important measures further control and prevention. The information provide here will be highly beneficial for workers in close association with Zoo animals.
- Project done on “An Introduction and Management of Mahatma Gandhi Rashtriya Udyan Zoo” by Pooja Uddhav Shinde, M.Sc.-II –Zoology, D.B.F. Dayanand College of Arts and Science, Solapur. The study is going to conduct a management on maintainance, visitors’ visit etc. Therefore designed a data base related to visitors, entry tickets staff development and planning, house feeding, health care record keeping and breeding etc.





## 26. Annual Inventory of animals.

Form – II

[See Rule 11(1)]

Part – A

Inventory Report for the Year

### Endangered Species

S. No.	Animal Name	Scientific Name	Opening Stock (1/04/17)				Births			Acquisitions			Disposals			Deaths			Closing Stock up to (31/03/2018)							
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T				
<b>A</b>	<b>Mammals</b>																									
1	Leopard	Panthera Pardus	2	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	4
4	Macaquet Bonnet	Macau Radiata	2	3	2	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	2	7
5	Macaquet Rhesus	Macaque Mulatta	4	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5
7	Porcupine	Hystrix indica	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
<b>Total</b>			<b>9</b>	<b>6</b>	<b>2</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>6</b>	<b>2</b>	<b>17</b>
<b>B</b>	<b>Reptiles</b>																									
1	Marsh Crocodile	Crocodylus Palustris	1	1	15	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	15	17
<b>Total</b>			<b>1</b>	<b>1</b>	<b>15</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>15</b>	<b>17</b>
<b>Grand Total</b>			<b>10</b>	<b>7</b>	<b>17</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>7</b>	<b>17</b>	<b>34</b>



Animals under Schedule I and Schedule II of the Wild Life (Protection) Act, 1972

Part – B


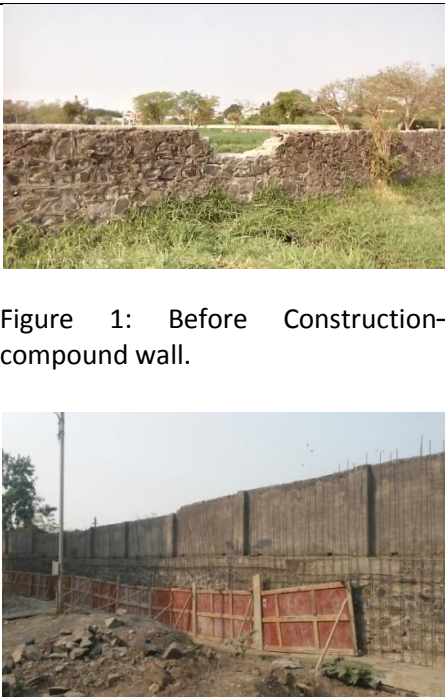
Other than Endangered Species




S. No.	Animal Name	Scientific Name	Opening Stock (1/04/17)				Births			Acquisitions			Dispo-sals			Deaths			Closing Stock up to (31/03/2018)						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T			
<b>A.</b>	<b>Birds</b>																								
1	Peafowl	Pavo Cristatus	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
2	Rose Ringed Parakeet/	Psittacula krameri manillensis	5	5	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	2	12
3	MaCaw	Ara Ararauna	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
4	Sun Conur	Aratinga solstitialis	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
5	Crimson Rosella	Platycercus elegans elegans	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
6	Love birds	Agapornis Personatus	4	5	9	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	9	18
7	Golden Pheasant	Chrysolophus Pictus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8	Cockteil	Nymphicus hollandicus	5	5	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	3	13
9	Java sparrow	Lonchura Oryzivora	2	4	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	0	6
<b>Total</b>			<b>21</b>	<b>23</b>	<b>16</b>	<b>60</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>21</b>	<b>23</b>	<b>14</b>	<b>58</b>
<b>B</b>	<b>Mammals</b>																								
10	Spotted Deer	Axis Axis	19	27	0	46	0	0	0	0	0	0	0	0	0	0	0	1	1	0	18	26	0	44	
11	Black Buck	Antelope Cervicapra	19	16	2	37	0	0	0	0	0	0	0	0	0	0	0	2	2	1	17	14	1	32	
122	Sambhar	Rusa Unicolor	2	5	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	5	0	7
<b>Total</b>			<b>40</b>	<b>48</b>	<b>2</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>37</b>	<b>45</b>	<b>1</b>	<b>83</b>	
<b>Grand Total</b>			<b>61</b>	<b>71</b>	<b>18</b>	<b>150</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>58</b>	<b>68</b>	<b>15</b>	<b>141</b>	

**27. Mortality of animals**

S.No	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
			- NA -		




**28. Status of the Compliance with conditions stipulated by the  
Central Zoo Authority**

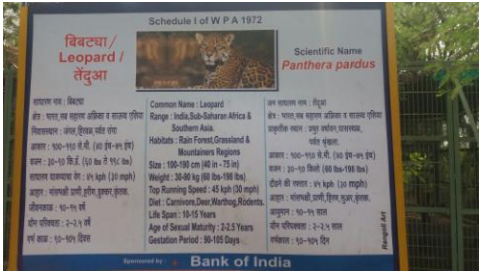
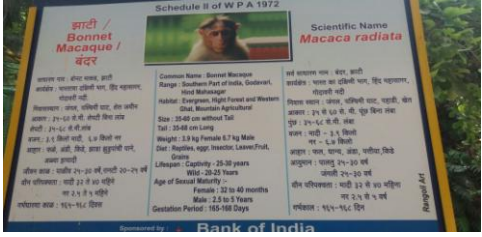

S.No	Norm Under RZR 2009	Violations of Recognition of Zoo Rules 2009	Compliance sheet for 2017-18	Submitted recent photos
General Requirements				
1	10 (1.2)	The zoo has failed to plant endemic large trees in various enclosures / aviaries to provide shade and shelter to the animals and to stimulate the conditions of the natural habitat of the animal in the enclosures.	Zoo master plan was prepared and large endemic trees were planted in 2016. Also we have now planned to plant large trees in June-July 2018, for which pits are already prepared and order is placed for saplings.	
2	10 (1.6)	The zoo has failed to construct the perimeter wall of the zoo which is surrounded by human landscape (perimeter wall of at least two meter in height from the ground level on both sides)	SMC has allocated Rs.1.25 Cr. Budget and work is started in January, 2018, which is expected to completed by October, 2018.	 <p>Figure 1: Before Construction–old compound wall.</p> <p>Figure 2: Perimeter wall construction is under progress.</p>

3	10 (1.7)	The zoo has failed to maintain zoo premises free from Garbage, plastic and metal etc., and also failed to free the entrance of the zoo from stagnant rain water.	Collection of garbage, plastic, metal etc. is done on daily basis water logging at entrance gate is removed by proper drain.	 <p>Figure 1:</p>
4	10 (1.7)	The zoo has failed to take appropriate measures for solid and liquid waste generated inside the zoo so that adverse impact is not created on the environment.	<p>1. For solid waste collection, collection van from solid waste management department of Solapur Municipal Corporation is collecting solid waste on daily basis.</p> <p>2. For Liquid waste Septic Tank (STP) constructed and it is now functional.</p>	 
5	10 (1.8)	<p>The zoo has failed to mention the species rose ringed parakeet (13 Nos.) grey partridge housed at the zoo in the statutory annual inventory of the animals submitted to the CZA.</p> <p>The zoo has also failed to provide the source of acquisition of these birds.</p>	<p>Grey Partridge was not available in Zoo since long time.</p> <p>After visit of Dr. Brijkumar Gupta on dated 16/10/2017, we have mentioned Rose Ringed Parakeet name in Annual inventory report.</p>	
6	10 (1.9)	The zoo has failed to stop housing the wild birds (grey partridges) along with the domestic birds. The zoo should remove domestic animals housed in the zoo immediately.	<p>Grey Partridges is not available in the Zoo.</p> <p>We have removed domestic birds from the zoo and shifted to another location outside the zoo.</p>	

Administrative and staffing pattern			
7	10 (2.1)	The zoo has failed to appoint whole time officer in charge of the zoo of the appropriate rank with adequate financial and administrative powers.	Full time veterinary officer is appointed since Aug-2017, who has been given sufficient financial & administrative powers as per MMC Act, 1949.
8	10 (2.2)	The zoo operator has failed to deploy full time curator veterinary officer education officer as well as biologist.	The appointment of the time curator & biologist is in process & same will be made before 31 <sup>st</sup> May, 2018.
9	10 (3.6)	The zoo has failed to make available an addition 21 acres area for the development of zoo.	21 acres total land is vested in corporation as per T.P scheme. A private person has filed W.P. in Mumbai HC which is pending since last 4 years. However, there is no stay & we undertaken work of road at main entrance at zoo, which will be completed in a month.
10	10 (3.7 and 8)	The zoo has failed to obtained permission from the CWLW of the state and the CZA regarding the acquisition of rescued Pariah kites (4) and painted stork (01) the zoo has failed to submit the clarification regarding the source of acquisition of birds.	The then Dr. Pankaj Rapatwar was a Zoo Director and he was looking all matters in the Zoo. During Dr. Brij Mohan Gupta Sir's visit on 16/10/2017 and followed his instruction Veterinary officer Dr. Shubhangi Tajane-Vasulkar sent a letter regarding acquisition of rescued birds to DCF, Solapur for further process for a acquisition of birds. Awaiting for their reply. We will get it as soon as possible & report.



Animal housing display of animals and animal enclosures				
11	10 (4.1) and Sec 38 l of the wild life (protecti on) Act 1972	The zoo has failed to provide information regarding the recent purchase of number of exotic birds without any approval as well as it has not followed the animal collection plan. Further the zoo does not have adequate space for housing of the acquired species.	Dr. Pankaj Rapatwar was a Zoo Director and he was looking after all matters in the Zoo. During Dr. Brij Mohan Gupta Sir's visit on 16/10/2018 as per his instruction Annual inventory is maintained. We will take all necessary action as per guidance & instructions before next inspection, We have made adequate provisions in our budget for the same.	
12	10 (4.1)	The zoo has failed to stop housing the budgerigar in small cages inside the office of the zoo and also failed to shift the bird to an appropriate enclosure as per biological and behavioral requirements of the species.	The Zoo has shifted budgerigar to an appropriate enclosures as biological and behavioural requirements of the species.	
13	10 (4.2)	The zoo has failed to provide the animal exhibits as per the norms prescribed by the CZA for example, jackal, rhesus macaque civet cat aviaries etc.,	Jackle and Civet Cat not available in the Zoo. Appropriate aviaries for Macaw and other birds proposed in the new master plan which is under implementation.	
14	10 (4.2)	The zoo has been exhibiting Leopard in feeding and retiring cell. The zoo has failed to shift leopard to new enclosure for the last 8 years against the welfare of the animal and its biological requirements. During the evaluation said enclosure was found lying unused, rusted full of rain water and vegetation.	The new enclosures will to be repaired and altered. The work will be completed by 16/10/2018.	


15	10 (4.3)	The zoo has failed provide kuchcha floor in the aviary for peacock	The Zoo has provided kuchcha floor in the aviary for peacock. See pitures.in fig : 1 & 2.	<p>Figure : 1</p>  <p>Figure:2.</p> 
16	10 (4.3)	The zoo has failed to make efforts to make its aviaries free of rodents.	We maintain rodents free cages with the help of rodents catcher and other necessary measures.	
17	10 (4.3 and 6)	The zoo has constructed enclosures for lion, leopard and crocodile but the same as not were made functional. It was informed that it is unused for the last 3 years.	It is too risky to shift leopards and crocodiles in newly constructed enclosures before completion of perimeter wall. The zoo is planning to put to use new enclosures after completion of Perimeter wall i.e., after 16/10/2018.	
18	10 (4.10)	The zoo has failed to provide signage in local languages with relevant information about biology and behavior etc. about the animal exhibited in the enclosures.	<p>All signage's are made in three languages i.e., Marathi, Hindi and English and also prepared environmental signages in the zoo.</p> <p>Fig. 1 : Old signage's Fig. 2 &amp; fig. 3 : Newly prepared signage's in the month of January 2018.</p>	<p>Figure 1: old signage's Board</p> 

				<p>Fig 2: New prepared Signage's board</p> 
				<p>Fig 3: New prepared Signage's board</p> 
	Upkeep and health care of animals			
19	10 (5.2)	The zoo has failed to maintain records of animal feed provided to the animals.	Zoo is maintaining feeding records compulsorily under the guidance of animal keeper and veterinary officer.	
20	10 (5.2)	The zoo has failed to ensure the animal feed house rodent free and moisture proof.	Animal feed house is rodent free now, we are taking necessary measures for the same.	
21	10 (5.5)	The zoo has failed to provide proper arrangements from drainage and removal of excreta and residual water from each cell / cubicle enclosure.	Now enclosures of leopard and lion are well drained by gutter system and joined to under ground drainage system.	
22	10 (5.8)	The zoo has failed to screen the animals against parasitic loads as per written schedule and also failed to maintain details on prophylactic medicines administered as per clinical requirements and vaccination of animals against infectious diseases at the zoo centre.	We have done animal deforming, TB and Brucellosis testing for the Zoo animals with the help of Dr. Ghoke (Prof. of Pathology) Udgir Veterinary College.	

23	10 (5.9)	The zoo has failed to screen the staff working with the animals against the zoonotic diseases.	Health screening for the zoo staff for Rabies vaccination, TT injection and T.B. is already done.	
24	10 (5.10)	The zoo has failed to maintain the keeper diary and also failed ensure the signing of the same on daily basis. The zoo has also failed to maintain the individual animal history sheet in the format as prescribed by the CZA.	The keeper Diary is maintained on daily basis now, also individual animal sheet will be maintained as per the instructions.	
Veterinary and infrastructure facilities				
25	10 (6.1)	The zoo has failed to create veterinary infrastructure the zoo has even failed to construct veterinary hospital for the last 8 years in spite of financial assistance provided by the CZA.	The land on which veterinary infrastructure is being constructed was under litigation. However, now there is no stay from Hon. Mumbai H.C. hence, work will completed in next Six months.	
26	10 (6.1c)	The zoo has failed to provide treatment room post mortem room as well as quarantine and isolation area at an appropriate area.	As above.	
27	10 (6.3)	The zoo has failed to keep the tranquilizing equipment safely under the lock and also failed to maintain the records with regard to the usage of tranquilizing drugs in a register.	We have provided a safety box for keeping tranquilizing Gun with lock. In future, we are maintaining the records with regard to the usage of tranquilizing drugs in a register.	
Acquiring and breeding of animals				
28	10 (9.4)	The zoo has failed to pair single porcupine in its collection.	We have requested to the Hemalkasa for breeding of porcupine. Response from them is awaited.	



29		The zoo has failed to adopt population control measures in respect of spotted deer blackbuck and bonnet macaque.	We have taking advise from Rajiv Gandhi National Park, Katraj (Pune) and proposed for Vasectomy for the spotted deer and Blackbuck. We will complete the process in next One month.	Attached communicated mail
Post-mortem and disposal of carcasses of animals.				
30	10(7.1,2,3)	The Zoo has failed to house the animals as per the carrying capacity of the enclosure and also failed to house the animals in the enclosure with prescribed dimension of CZA. The zoo has failed to investigate the reason behind the death of animals Blackbuck, Sambar, Rhesus macaque due to infighting.The zoo has also failed to adopt immediate population control measures and also failed to phase out the surplus animal to other recognized zoos with prior approval of the CZA.	We have taking advise from Rajiv Gandhi National Park, Katraj (Pune) and proposed for Vasectomy for the spotted deer and Blackbuck.	
Visitors facilities				
31	10 (12.1)	The zoo has failed to improve the hygienic condition and cleanliness of civic amenities.	Hygienic condition & cleanliness in zoo is empowered now to the satisfaction of citizens i.e., Figure 1 and Figure 2.	 <p data-bbox="1058 1581 1155 1608">Figure: 1.</p>  <p data-bbox="1058 1937 1155 1964">Figure: 2.</p>

32	10(12.2)	The zoo has failed to provide snake anti-venom and life saving drugs for the safety of zoo visitors.	We have placed the demand for ASV & life saving drugs are made for the Safety of zoo visitors.	
33	10(12.3)	The zoo has failed to provide functional wheelchair for the physically challenged persons.	We are providing wheelchair for the physically challenged persons.	
Maintenance of Records and submission of Inventory				
34	10(11.1)	<p>The following Indian, domestic and exotic species are not shown in he animal inventory submitted by the zoo to the CZA.</p> <ol style="list-style-type: none"> <li>1. Grey Partridge(7)</li> <li>2. Rose ringed parakeet (13)</li> <li>3. Muscovy duck(7)</li> <li>4. Macaws(2)</li> <li>5. Love Birds (180)</li> <li>6. African love birds(8)</li> <li>7. African java bird (8)</li> <li>8. Golden pheasant</li> <li>9. Rosella (2)</li> <li>10. Turkey (4)</li> <li>11. Domestic ducks (11)</li> <li>12. Domestic pigeons(4)</li> </ol>	<p>At the time of evaluation, the documentation of new purchased birds was not complete, so we couldn't show inventory.</p> <p>Grey Partriged are not available in Zoo since long period.</p> <p>18 no. of lovebirds are available in the zoo &amp; not 180.</p>	

Others			
35		<p>The zoo has failed to complete the work for which the financial assistance of Rs. 1. 78 Crores provided to the zoo by the CZA during 2009-10 for the construction of following new enclosures and other infrastructure.</p> <p>Leopard (Rs. 32.30 lakhs) SpottedDeer (Rs. 33.42 lakhs) Lion (Rs. 46.84 lakhs) Marsh Crocodile (Rs. 15.59 lakhs) Veterinary Hospital (Rs. 50.6 lakhs)</p> <p>The zoo has also failed to refund the grant since the zoo is unable to complete the works for which the funds were allotted by the CZA.</p>	<p>The grant was released vide CZA letter no. 19—25/93-CZA (Vol. IV) (155) (NA), dated 23/11/2009 and letter no. 19-25*/93-CZA (Vol.IV) (155) (NA) dated 12/04/2010.</p> <p>U.S. has been submitted for Rs.167 lacs remaining unutilized funds will be refunded after re-conciliation of accounts by May-2018.</p>
36		<p>The zoo shifted Lion to new enclosure and the lion died a year ago. However, this enclosure is also lying empty.</p>	<p>Since, we couldn't get lion, we have required Aurangabad Zoo for Royal Bengal Tiger. However they had asked as for exchange of Carnivorous, which we don't have with us.</p>
37		<p>The deer enclosure is being constructed. Signages were put up as stated by the Zoo, but at the time of evaluation there were not sufficient signage's available. The signage's which were available at the zoo were in very poor condition.</p>	<p>We have put additional signages in the visible area.</p>

## **29. List of free living Wild Animals within the Zoo premises**

1. Mammals : No
2. Birds : No
3. Reptiles : No



**Dr. Shubhangi Tajane – Vasulkar**  
**I/c. Zoo Director,**  
**Mahatma Gandhi Zoo,**  
**Solapur Municipal Corporation,**  
**Near Revan Siddheshwar Temple,**  
**Opposite to Kambar Talav,**  
**Soninagar, SOLAPUR**  
**( MAHARASHTRA STATE)**  
**INDIA.**