



DR. Shyamaprasad Mukherjee Zoological Garden
Surat Municipal Corporation
Surat, Gujarat



Annual Report for the Year
2021-22

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1. Report of the Officer-in-charge

Dr. Shymaprasad Mukerjee Zoological Garden, Sarthana, Surat is one of the medium Zoos of the country. Established on 26th April, 2003 as the first zoological park in the Southern region of the Gujarat State, it has progressively emerged as an eminent and vibrant centre for biodiversity conservation and environmental education. As a premier medium zoo of India, it has spearheaded many significant improvements to provide highest standards of housing, husbandry and health care to the captive wild animals and contributed towards enriching our knowledge on the biology of endangered species.

Surat zoo exemplified the inimitable of ex-situ conservation initiatives. The sprawling zoo houses 49 species of mammals, reptiles and birds. The natural forest areas of Sarthana zoo provide home to a rich assemblage of free-living wild animals including 19 species of mammals, 06 species of reptiles, 21 species of birds, 29 species of butterflies. This is one of the most important plant conservation facilities in the Gujarat State. More than 250 species of plants have been documented in the Sarthana zoo premises.

We have completed another outstanding year of biodiversity conservation, zoo management, education. Sarthana zoo has been an excellent place for eco-tourism which attracted more than 0.153 million visitors during the year 2021-22. There was significant improvement in the infrastructure development, animal collection, health care, fodder production and conservation efforts. Many zoo education and awareness program including Celebration of wildlife week, World wildlife day, World Environment Day, International tiger day were organized during the year 2021-2022. Many species of indigenous and exotic animals including Lion, Black buck, Rhesus Macaque, Mouse deer, Smooth Coated Otter, Sambar, Spotted deer, Painted stork, etc. have breed successfully in the Zoo during the year.

During the year 2021-22 further main entry gate redevelopment work is undertaken, maintenance work regarding civil work, Paintwork is undertaken in zoo.

During this financial year we have welcomed pair of Tiger (Leucistic) (1 Male : 1 Female) , Jackal (1 Male : 1 Female) , Silver Pheasant (1 Male : 1 Female) and Hog Deer (2 Male : 2 Female) From Pradhyuman zoological park , Rajkot in exchange of pair of Smooth Coated otter (1 Male : 1 Female) , Leopard (1 Male : 1 Female), Peafowl (Leucistic) (1 Male : 1 Female), Spoon Bill (1 Male : 1 Female).we have succesful captive breeding of smooth coated Indian otter puppies (2 Female : 2 Male) during this year.

There has been a substantial improvement in the field of health care during the year. This was possible due to sincere efforts by our staff in order to maintain highest standards of health care and animal husbandry practices and close association with college of Veterinary Sciences, Anand and Navsari and also with the valuable advice and guidance of the Nandini Veterinary Hospital, Surat and faculty members of above colleges on important health care issues.

Surat Zoo has always been an outstanding centre for education on various aspects of ex-situ conservation, health care and management of captive wild animals.

Information on various aspects of management and development of Dr Shymaprasad Mukherjee Zoological Garden, Surat during the year 2021-22 has been provided in the present Annual Report. I would like to thank all my staff for their hard work and dedication that made it a successful year in the maintenance and development of Dr. Shyamaprasad Mukharjee Zoological Garden, Surat in the present Covid-19 pandemic condition. I believe that Surat Zoo will continue to grow as a world class zoo and to contribute significantly in the field of wildlife conservation, education and research in coming years.

A handwritten signature in blue ink, appearing to read 'Shyamaprasad Mukherjee', is centered on the page. The signature is written in a cursive style with a horizontal line underneath.

Zoo Superintendent
Dr. Shyamaprasad Mukerjee Zoological Garden
Sarhana, Surat, Gujarat State

2. History of the Zoo

Dr. Shyamprasad Mukherjee Zoological Garden, Sarthana, Surat is one of the premier medium Zoo located amidst a beautiful natural setting recognized by Central Zoo Authority, Government of India. Unlike conventional zoos, it spreads over in 81 acres of land with natural vegetation , water bodies and enchanting landscape that provides the zoo inhabitants an appropriate ambience to live in harmony with the nature. It was dedicated to the public on April, 2003. During Year 2021-22 Because of Covid-19 Pandemic situation Zoo is closed for the visitors From 1ST April-2021 To 10th June-2021 and again open from 11TH June for visitors only with limited entry till 22th feb -2022 then after zoo opened with unlimited entry for visitors During this time more than 0.153 million visitors visited the Zoological Park during 2021-22. Most of the animals of Dr.Shyamprasad Mukharjee Zoological Garden, Surat all animals housed in open, large moated areas surrounded by natural vegetation. This gives them a feeling of living close to their natural habitat.

3. Vision

To complement and strengthen the national efforts in conservation of the biodiversity of the country, particularly the fauna through the ex-situ conservation linked with in-situ practices through

- Fostering sound physical, psychological and social development for the animals in our care.
- Creating an educational environment for all sectors, groups and individuals that develops a unifying bond between our visitors and the animals which inspires appreciation and concern about wildlife and wild places.
- Contributing to worldwide animal management, conservation and research efforts. Improving the quality of our professional development, administration and operating environment.

4. Mission

To connect visitors and animals through exemplary animal welfare and care, best educational and inspirational experiences, fostering public appreciation and support for wild animals and conservation"

To provide better upkeep and veterinary care to the wild animal housed in zoos in India to ensure their conservation through best practices of management and bringing education & awareness among the people.

5. Objective

- To convey the value of conservation through education.
- Captive breeding of endangered species mainly Smooth Coated Indian Otter, Four horned antelope , Sloth Bear.
- To inspire local and global communities to protect, conserve, and celebrate wildlife.
- To provide a fun, unique, and inspirational experience fostering appreciation, knowledge and care for the natural world.
- To ensure thriving as a premier zoological institution, reaching its fullest potential to serve people, animals and the environment.

6. About us

S.No.	Particulars	Information
Basic information about the Zoo		
1.	Name of the Zoo	Dr.Shyamaprasad Mukherjee Zoological Garden
2.	Year Of Establishment	2003
3.	Address Of the Zoo	Opposite Old Sarthana Octroi Naka, Sarthana, Surat- Kamrej Road, Surat-395006
4.	State	Gujarat
5.	Telephone Number	+91 6359905032 +91 6359905033
6.	Fax Number	0261-2451935, 2422110
7.	E-mail address	zoosuperintendent@suratmunicipal.org smczoodrrap@yahoo.com commissioner@suratmunicipal.org commissioner@suratmunicipal.gov.in
8.	Website	www.suratmunicipal.gov.in www.suratmunicipal.org
9.	Distance from nearest	Airport : Surat - 23 Kms
		Railway Station : Surat - 7 Kms
		Bus Stand : Surat - 7 Kms
		BRTS : 100 Mtr.
10.	Recognition Valid upto (Date)	19 th August, 2022
11.	Category of Zoo	Medium
12.	Area (in Hectares)	32.78 Hectares
13.	Number of Visitors (Financial Year)	Adult : Zoo : 1,53,422 Butterfly park : 10507
		Children : Zoo : 35850 Butterfly Park : 3157
		Total Indian : 1,53,391
		Total Foreigners : 31
		Total Visitors : 1,53,422

14.	Visitor's Facilities Available in Zoo	Parking, Toilets, Water huts, Wheel Chair, Canteen / Cafeteria, Battery Operated Passenger Trolleys(BOPT) for zoo round.
15.	Weekly Closure Day of the Zoo	Monday
Management Personnel of the Zoo		
16.	Name with designation of the Officer incharge	Dr. Rajesh A. Patel I/C.Zoo Superintendent
	Name of the Veterinary Officer	Dr. Rajesh A. Patel Assistant Vet. Officer
	Name of the Curator	-- (Vacant)
	Name of the Biologist	-- (Vacant)
	Name of the Education officer	Instead of the Education Officer there is a two post of Zoo Guide in the zoo 1. Shri Hina C. Patel 2. Vacant
Owner / Operator of the Zoo		
17.	Name of the Operator	Municipal Commissioner (Surat Municipal Corporation)
18.	Address of the Operator	Gordhandas Chokhawala Marg, Mugalisara,Surat-395003
19.	Contact details / Phone number of Operator	0261- 2422244 (D), 0261-2423750 to 2423756 & 0261-2422285 to 2422287
20.	E-mail address of Operator	commissioner@suratmunicipal.org commissioner@suratmunicipal.gov.in
21.	Address of the Zoo	Dr.Shyamaprasad Mukherjee Zoological Garden,Opposite old Sarthana Octroi Naka, Surat – Kamrej Road, Sarthana Surat-395006 Phone: +91 6359905032 +91 6359905033

SALIENT FEATURES OF SARTHANA ZOO, SURAT

Area	Dr.Shyamaprasad Mukhrjee Zoological Garden		32.78 hacter (81 acre)
Captive animals as on 31.03.2022	Mammals	21	116
	Birds	22	226
	Reptiles	06	48
	Total	49	390
No. of animal House	Nos. 390 (covered - 229, Open moated -161)		
Zoo holiday	Every Monday, and on the eve of Dhuleti, Muharram and Anant chaudash		
Zoo timing	for visitors	10.00 am. to 5.00 pm.	
Animal feeding time	Carnivores	11.00am. to 1.00 pm. (Except Monday)	
	Reptile	11.00am. to 1.00 pm.	
	Birds	11.00am. to 1.00 pm.	
	Herbivores	11.00am. to 1.00 pm. & 4.00 pm. to5.00 pm.	

VISITORS' AMENITIES

- Drinking water kiosks with water cooler and R.O.system
- Toilets block at four different convenient locations
- Special toilets, wheel chairs and ramps for Handicapped and physically disable persons
- Rest areas, sit-outs / visitors sheds at various location
- Restaurant and snacks bar
- Cloak room near the entrance gate
- First aid (at zoo hospital and main gate entrance)
- Guide maps, informative and directional signage.

SPECIAL ATTRACTION OF SARTHANA ZOOS

Butterfly garden and insect kingdom

Wildlife interpretation centre with nocturnal house Light and Sound show.

Digitalized payment and issuing facility for entry ticket and facilities of online ticket booking.

OTHER SERVICES OF THE ZOO

1. Interactive education and awareness program.
2. Conduct guided tour for school children.
3. Availability of zoo guided tour on demand of visitors / School child visiting in group.

GENERAL INFORMATION FOR VISITORS

Entry Hours : 10.00 A.M. (Morning) to 5.00 P.M. (Evening)

Zoo remain closed on every Monday

Entry Charges (Per Head)

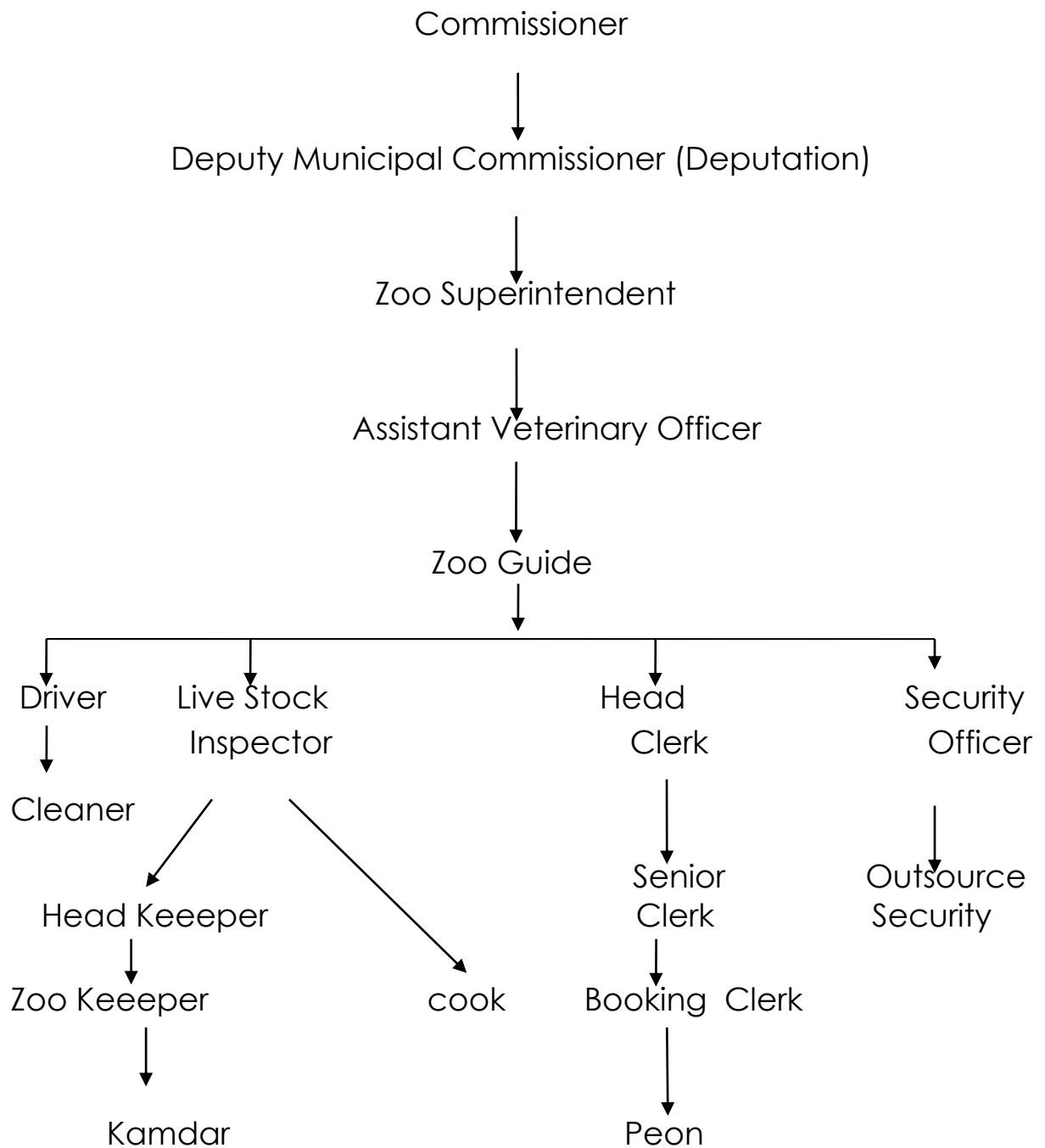
Entry Fee

1.	An Individual above 12 years of age	₹ 30.00
2.	Children age 5 to 12 years and senior citizens age 65 years and above.	₹ 20.00
3.	Children below 5 years	Free
4.	Visiting students of Education institutes (Primary to Secondary Schools) & senior citizen	₹ 10.00
5.	School & Institutes related with WWF or nature group activities and for the college students doing research on wild life and jungles.	₹ 10.00
6.	For the persons from Women protection centre, Orphanages, Institutions fir disabled & mentally retarded and juvenile homes.	Free
7.	Foreigners.	₹ 200.00
8.	Foreigner's children (age 3 to 12 Years)	₹ 100.00
<u>Photography charges :</u>		
1.	Still Camera (Per day)	₹ 50.00
2.	Personal domestic video camera(Per day)	₹ 150.00
3.	Professional camera/video (Per day) [Prior approval of competent authority is required, for shooting the wildlife and natural view in the premises of the Nature Park.	₹ 5000.00
BUTTERFLY GARDEN, INSECT KINGDOM AND WILDLIFE INTERPRETATION CENTER		
General Information : Visiting Hour's : 10.00 A.M to 5.00 P.M. Butterfly Garden remains closed on every Monday. <u>Entry Charges (per Head)</u>		
1.	Adult	₹ 20.00
2.	Children (age 5 to 12 years)	₹ 10.00
3.	Children Below 5 years.	Free
4.	Person from Women protection centre, Orphanages, Institution for disabled & mentally retarded and juvenile homes. Best time to watch Butterfly from 10.00 A.M to 3.00 P.M	Free

7. Organization Chart

Surat Municipal Corporation

Dr. Shyamaprasad Mukherjee Zoologica Garden



8. Human Resources

Sr. No.	Designation	Number Of Sanctioned Posts	Names of the incumbent
1	Zoo Superintendent	01	Dr. Rajesh A. Patel
2	Assistant Veterinary Officer	01	Dr. Rajesh A. Patel
3	First Grade Clerk	01	vacant
4	Security Officer	01	Vacant
5	Curator (Educator & Research)/Biologist	01	Vacant
6	Zoo Guide	02	Smt. Hina C. Patel + 01 Vacant
7	Second Grade Clerk	01	Aljibhai Khakhadia
8	Laboratory Technician	01	Vacant
9	Live Stock Inspector	01+01(on loan)	Pritesh Navinlal Patel Ravindra R.Darbar (on loan)
10	Head Zoo Keeper	01	Mahendra R. Valhe
11	Third Grade Clerk	03	Pratik Y.Tailor Dhaval N.Chanakya Vipul A.Patel
12	Horticulture Assistant	01	Tejas S. Patel
13	Driver	01	Shailesh Surti
14	Mukadam	01	Vacant
15	Zoo Keeper	15	9 Filled up and 06 post are vacant, which will be filled up as per the requirement of department.
16	Peon	03	Rasul Ibrahim Mirza Chirag D. Patel Subhash V. Chauhan
17	Beldar	21	All are filled
18	Zoo Sevak	01	Vacant
19	Cook	01	Balvant M. Parmar
20	Cleaner	01	Sunil I. Solanki
21	Safai kamdar	02	Hiren D.Solanki Rahul K Makwana

9. Capacity Building of Zoo personnel

Sr. No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
NIL				

10. Zoo Advisory Committee

- a. Date of Constitution : Not in existence
- b. Member : Not applicable
- c. Date on which Meeting held during the year : NA

11. Health advisory Committee

- a. Date of Constitution : 22 / 03 / 2004
- b. Member : 3
- c. Date on which Meeting held during the year: Visit/Meeting not held since last 10 years

12. Statement of income and expenditure of the Zoo

Income of Zoo during the 2021-2022

Sr.No.	Perticulars	Income (Rs.)
1	Zoo entry fees	5330380.00
2	Butterfly park entry fees	230000.00
3	Canteen / cafeteria rent	0.00
4	Mango tree auction income	258334
5	Income from parking contract	0.00
6	Tender fees / Other miscellanies income	457000.00
7	Battery operated passenger vehicle income	0.00
Total Income		6275714.00

Expenditure of Zoo during the 2021-2022

Sr. No.	Particulars	Amount
1	Zoo staff Salary	21015712.40
2	Feed cost of animals	7517558.00
3	Medicine cost	87848.00
4	Security	4413600.00
5	Electricity	130000.00
6	Miscellaneous	419250.00
7	Garden and butterfly park maintenance	1215691.00
Total Expenditure		35969659.40

13. Daily diet schedule chart of animals

Sr. No	Species	feed item	Quantity		Day of Fasting
			Winter	Summer	
1	Antelope Four horned	Green fodder + Concentrate	1.5Kg + 50gm	1.5Kg + 50gm	Nil
2	Antelope Black buck	Green fodder + Concentrate	2.0 Kg + 100 gm	2.0 Kg + 100 gm	Nil
3	Antelope Black buck (White)	Green fodder + Concentrate	2.0 Kg + 100 gm	2.0 Kg + 100 gm	Nil
4	Barking deer	Green fodder + Concentrate	2.5 Kg + 100 gm	2.5 Kg + 100 gm	Nil
5	Sloth Bear	Milk + Rice +Boiled Egg + Seasonal Green vegetable & fruits + Roti + Honey	1.5lit+400gm+1+3.0 kg+1+50gm	1.5lit+300gm+1+2.0 kg+1+50gm	Monday for milk and Rice
6	Himalayan Black Bear	Milk + Rice +Boiled Egg + Seasonal Green vegetable & fruits + Roti + Honey	1.5lit+500gm+2+4.0 kg+1+75gm	1.5lit+400gm+2+3.0 kg+1+75gm	Monday for milk and Rice
7	Jackal	Beef	1.0 kg	750 gm	Monday
8	Hanuman langur	Sprouted legume grains+Seasonal Green vegetable & fruits	1.0 kg	1.0 kg	Nil
9	Monkey Rhesus	Sprouted legume grains+ Seasonal Green vegetable & fruits	500 gm	500 gm	Nil
10	Panther	Beef	3.5 kg	3.0 kg	Monday
11	Asiatic lion	Beef	10 kg.	8.0 kg.	Monday

12	Porcupine	Sprouted legume grains +seasonal green vegetable and fruits	1.0 kg.	1.0 kg	Nil
13	Tiger / White Tiger	Beef	10 kg	8 kg	Monday
14	Otter	Fish	1.5 kg	1.4 kg	Nil
15	Mouse Deer	Green fodder+Green leafy vegetables +Seasonal fruits	250 gm	200 gm	Nil
16	Crocodile Marsh	Beef	1 kg / week	1.5 kg / week	--
17	Crocodile Siamese	Beef	1 kg / week	1.5 kg / week	--
18	Crocodile Caiman	Beef	0.750 kg /week	1 kg / week	--
19	Tortoise	Mix Green Vegetable+Sproutd Leguminous grains Roots	100gm	100 gm	Nil
20	Gharial	fish	2.5 kg / week	2.5 kg / week	--
21	Indian Rock python	Rabbit / Gunea pig	3.0 kg monthly	3.0 kg fort nightly	--
22	Crane Saras	Boiled Rice + fish + Cereals grains	100 gm + 500gm	100 gm + 500gm	Nil
23	White Peafowl	Grains +Gramms+ Green Leafy Vegetable+Cabbage	200 gm	200 gm	Nil
24	Indian Peafowl	Grains +Gramms+green palak +cabbage	200 gm	200 gm	Nil
25	Night heron	Small Fish	150 gm	150 gm	Nil
26	Spoon bill	Small Fish	150 gm	150 gm	Nil
27	White ibis	Small Fish	150 gm	150 gm	Nil
28	Black kite	Beef (Minced)	50 gm	50gm	Nil
29	Alexandrine parakeet	Seasonal fruits + milk + bread	50 gm + 25 gm	50 gm + 25 gm	Nil
30	Cockatiel	maize + grains	5-10 gm	5-10 gm	Nil
31	Cockatoo (Umbrella)	seasonal fruits + milk + bread + sunflower seed	100 gm + 50 gm	100 gm + 50 gm	Nil
32	Cockatoo (Sulphar)	seasonal fruits + milk + bread + sunflower seed	100 gm + 50 gm	100 gm + 50 gm	Nil
33	Emu	poultry layer mash	600 gm	600 gm	Nil
34	Flamingo	small fish	500 gm	500 gm	Nil

35	Lorrikeet Rainbow	seasonal fruits + milk + bread	50 gm + 25 gm	50 gm + 25 gm	Nil
36	Lorrikeet Red	seasonal fruits + milk + bread	50 gm + 25 gm	50 gm + 25 gm	Nil
37	Lorrikeet Chetering	seasonal fruits + milk + bread	50 gm + 25 gm	50 gm + 25 gm	Nil
38	Parrakeet African Grey	seasonal fruits + milk + bread + sunflower seed	100 gm + 50 gm	100 gm + 50 gm	Nil
39	Pelican Rosey	Fish	1.5 kg	1.5 kg	Nil
40	Silver Phesant	grains + layer mash + milk + bread	25 gm +5gm + 25 gm	25 gm + 25gm + 25 gm	Nil
41	Conure	seasonal fruits + milk + bread	50 gm + 25 gm	50 gm + 25 gm	Nil
42	Golden Phesant	grains + layer mash + milk + bread	25 gm +5gm + 25 gm	25 gm + 25gm + 25 gm	Nil
43	Ostrich	layermash+green fodder +lucern	2.0-2.5 kg	2.0 -2.5kg	Nil
44	Deer Hog	Green Grass + Concentrate	2.5 Kg + 100 gm	2.5 Kg + 100 gm	Nil
45	Deer Samber	Green Grass + Concentrate	10 Kg + 300 gm	10 Kg + 300 gm	Nil
46	Deer Spotted	Green Grass + Concentrate	2.5 Kg + 100 gm	2.5 Kg + 100 gm	Nil
47	Hynae	Beef	2.0 kg	2.0 kg	Monday
48	Hippopotamus	Green fodder+Concentrate + potato + banana	45kg+2.0kg+3.0 kg+2.0kg	45kg+2.0kg+3.0kg+2.0kg	
49	Nilgai	Green Grass + Concentrate	8 Kg + 200 gm	8 Kg + 200 gm	Nil

14. Vaccination Schedule of animals

Sr. No.	Species	Disease vaccinated for	Name of the Vaccine and dosage / Quantity used	periodicity	Remarks
1	Tiger Leopard (felines)	Canine leptospira, Parvo, Para influenza,	Canigen-DHHPPi-Lepto 1 dose	Yearly	
		Rabies	Nobivac-R 1 dose	Yearly	
		Panleukopenia virus, Calci virus, Herpes virus, Rabies	Biofel-PCHR 1 dose	Yearly	
2	Bears (Sloth)	Canine	Canigen-	Yearly	

	bear & Himalayan Black bear)	leptospira, Parvo, Para influenza,	DHHPPi- Lepto 1 dose		
		Rabies	Nobivac-R 1 dose	Yearly	
3	Hyena, Jackle (Canine)	Canine leptospira, Parvo, Para influenza,	Canigen- DHHPPi- Lepto 1 dose	Yearly	
		Rabies	Nobivac-R 1 dose	Yearly	

15. Deworming Schedule of animals

Sr. No.	Species	Drugs used	Months
1	Felines (tiger, Leopard)	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022
2	Canines (Hyena, Jackal, Otter,)	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022
3	Omnivorous (Bears)	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022
4	Herbivorous (All Deers)	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022
5	Hippopotamus,	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022
6	Birds (All Parakeet, lorrikeet, water birds, Peafowl, Pheasants, pelican, etc.)	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022
7	Reptiles (python)	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022
8	Monkey	Albendazole Ivermectin Fenbandazole Albendazole	June-2021 September-2021 January-2022 March-2022

16. Disinfection Schedule

Sr. No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Felines (tiger, Leopard)	Open moated	Kohrsoline-Th / Chlorine dioxide	every fortnightly in night shelter
2	Canines (Hyena, Jackal, Otter,)	Open moated	Kohrsoline-Th / Chlorine dioxide	every fortnightly in night shelter
3	Omnivorous (Bears)	Open moated	Kohrsoline-Th / Chlorine dioxide	every fortnightly in night shelter
4	Herbivorous(All deers)	Open moated	Quick lime dust and sometime NaOH solution spray	one in three months or as an when needed
5	Hippopotamus,	Open moated	Calcium Hypochloride powder	every 15-21 days
6	Birds (All Parakeet, lorikeet, water birds, Peafowl, Pheasants, pelican, etc.)	Cage type	Kohrsoline-Th / Chlorine dioxide	every fortnightly
7	Reptiles (python)	Cage type	Kohrsoline-Th	every fortnightly
8	Monkey	Open moated	Kohrsoline-Th / Chlorine dioxide	every fortnightly

We have started disinfecting the Vegetable and Non Vegetable food (chicken, beef, and fish) offered to All Zoo animals by washing and dipping in chlorine dioxide solution.

17. Health Check-up of Employees for Zoonotic disease.

Sr. No.	Name	Designation	Date of Health Check up	Finding of Health Check up
1	Rajeshkumar A. Patel	I/C Zoo Superintendent & Assist.Vet.Officer	22/08/2021	Negative for T.B. vaccinated for Rabies
2	Hinaben Chirag Patel	Zoo Guide	22/08/2021	"
3	Priteshkumar Navinlal Patel	Livestock Inspector	27/08/2021	"
4	Ravindrasingh R. Darbar	Livestock Inspector	27/08/2021	"
5	Tejas s.Patel	Horticulture Assistant	22/08/2021	"
6	Mahendra Ratilal Valhe	Zoo Keeper	27/08/2021	"
7	Sureshbhai Sravanbhai Vasava	Zoo Keeper	22/08/2021	"
8	Sureshchandra Chhotulal Patel	Zoo Keeper	22/08/2021	"
9	Manohar K.Desale	Zoo Keeper	22/08/2021	"
10	Pavan R.Patil	Zoo Keeper	22/08/2021	"
11	Chetan S.Patil	Zoo Keeper	22/08/2021	"
12	Girish J.Chaudhary	Zoo Keeper	22/08/2021	"
13	Jayesh M.Mahajan,	Zoo Keeper	22/08/2021	"
14	Akash V.Parmar	Zoo Keeper	22/08/2021	"
15	Balvantbhai M. Parmar	Cook	27/08/2021	"
16	Somabhai M. Baraiya	Beldar	22/08/2021	"
17	Shankarbhai Chandulal Randeri	Beldar	22/08/2021	"
18	Kasubhai Maknabhai Damor	Beldar	22/08/2021	"
19	Vijya Kanji Jethva	Beldar	22/08/2021	"
20	Mohanbhai K Charaniya	Beldar	22/08/2021	"
21	Atulbhai Dineshbahi Gamit	Beldar	22/08/2021	"
22	Mayur Prakashbhai Patel	Beldar	22/08/2021	"
23	Rakeshbahi Hasmukhbhai Gamit	Beldar	22/08/2021	"
24	Ganeshbhai Dilipbhai Deshmukh	Beldar	22/08/2021	"
25	Mukeshbahi Naranbhai Parmar	Beldar	27/08/2021	"
26	SunilKumar Kashinathbahi Mali	Beldar	27/08/2021	"
27	Jitesh Lalji Parmar	Beldar	27/08/2021	"
28	Bhikhabhai Jerambhai Vaghela	Beldar	22/08/2021	"
29	Kanubahi N. Panada	Beldar	22/08/2021	"

30	Dilipkumar Kukabahi Damor	Beldar	27/08/2021	"
31	Hiren D. Solanki	Safai kamdar	22/08/2021	"
32	Rahul Makwana	Safai kamdar	22/08/2021	"
33	Shailesh M.Surti	Driver	22/08/2021	"
34	Sunil I. Solanki	Cleaner	27/08/2021	"
35	Vinodbhai R. Patel	Trainee Beldar	22/08/2021	"
36	Moh. Hussain G. Chuahan	Trainee Beldar	22/08/2021	"
37	Drinkal H. Patel	Trainee Beldar	27/08/2021	"
38	Gayatriben G. Rathod	Trainee Beldar	27/08/2021	"
39	Hiren M. Patel	Trainee Beldar	27/08/2021	"
40	Ajay R. Patel	Trainee Beldar	27/08/2021	"

18. Development works carried out in the Zoo during the year

- Visitors walkway and zoo roads repaired.
- Refurbishing of public toilets.
- construction and repair of go down and store facilities.
- Construction of new modern Toilet Block at the main Entrance
- Construction of Off exhibit otter breeding cum Quarantine facilities.
- Painting of animal enclosure and fences.
- Construction of shed in openyard of deer enclosure.

19. Education and Awareness programme during the year

It has been mentioned in report of the director.

20. Important Events and happenings

- Celebration of World Environment day.
- Tiger day
- Wildlife Week celebration during the 2nd October to 08th October.
- World Environment day Tree plantation programme in Zoo Premises in the presence.
- World Tiger day.

21. Seasonal special arrangement for upkeep of animals

- SUMMER MANAGEMENT usually the animals are under severe stress during summer. In order to improve the comfort level, heat relief measures were undertaken during last summer. • All deer enclosures were provided with new resting sheds. • Sprinkling/ fogger of water/cooler were arranged in enclosures

housing tiger, leopard, Himalayan bear, ostrich & aviary section • Special dietary arrangements were made for primates, bears, and birds to keep them at ease. • Shade nets cutting off sunlight are provided at aviaries, ostrich and white tiger enclosures.

- During winter, electric heater has been installed in tiger, leopard, Hyena, Himalayan bear and lamps are provided in each cages of the bird aviary.
- During monsoon, night shelter entry kept open throughout the day, so animal may go to the shaded area to protect itself from heavy rain.

22. Research Work carried out and publications: During this year Surat zoo has neither undertaken any research work nor any publications have been carried out.

23. Conservation Breeding programme of the Zoo

- Zoo has successfully breed Mouse deer, Black buck, smooth coated Indian otter, Hippopotamus and other animals in the captivity.

24. Animal acquisition / transfer / exchange during the year

A.	Animals arriving in the Zoo				
	H. No.	species	Number (M:F)	From which Zoo	Date of arrival in the Zoo
	1	Tiger (Leucistic)	1 : 1	Pradhyuman zoological park , Rajkot	03/07/2021
	2	Jackal	1 : 1	Pradhyuman zoological park , Rajkot	03/07/2021
	3	Silver Pheasant	1 : 1	Pradhyuman zoological park , Rajkot	03/07/2021
	4	Hog Deer	2 : 2	Pradhyuman zoological park , Rajkot	12/10/2021
B.	Animals going from the Zoo				
	H. No.	species	Number (M:F)	To which Zoo	Date of disposal from the Zoo
	1	Smooth Coated otter	1 : 1	Pradhyuman zoological park , Rajkot	03/07/2021
	2	Peafowl (Leucistic)	1 : 1	Pradhyuman zoological park , Rajkot	12/10/2021
	3	Spoon Bill	1 : 1	Pradhyuman	12/10/2021

				zoological park , Rajkot	
	4	Leopard	1 : 1	Pradhyuman zoological park , Rajkot	03/07/2021

25. Rescue and Rehabilitation of wild animals carried out by the Zoo: Nil

Sr. No.	Date of Rescue	Species with number of animals rescued with their sex (M:F:U:T)	Received from	Date of Submission of Report to the CWLW / CZA	Action Taken	
					Date and Place of rehabilitation in their habitat	Reasons for housing in the Zoo if not released in their habitat
		NIL				

26. Annual Inventory of animals

Form-II
[See Rule 11(1)]
Part-A

Inventory Report for the Year:2020-2021

Endangered Species

SR. NO.	Animal Name	Scientific Name	Opening Stock				During the year												Closing Stock as on 30 - 06- 2021			
			as on 01-04-2021				Birth			Aquistion			Disposal			Death						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
AVES :-																						
1	White peafowl	Pavo crestatus	3	7	0	10	0	0	0	0	0	0	1	1	0	0	0	0	2	6	0	8
2	Indian peafowl	Pavo crestatus	3	3	0	6	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	6
3	Spoon Bill	Platalea leucordia	2	2	4	8	0	0	0	0	0	0	1	1	0	0	0	1	1	1	3	5
TOTAL AVES :---			8	12	4	24	0	0	0	0	0	0	2	2	0	0	0	1	6	10	3	19

SR. NO.	Animal Name	Scientific Name	Opening Stock as on 01-04-2021				During the year												Closing Stock as on 30 - 06- 2021			
							Birth			Aquistion			Disposal			Death						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
MAMMALIA :-																						
1	Black buck(leucistic/ white)	Antelop cervicapra	0	2	1	3	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	2
2	Black buck	Antelop cervicapra	3	9	9	21	0	0	0	0	0	0	0	0	0	1	2	0	2	7	9	18
3	Indian jackal	Canis aureus indicus	4	7	0	11	0	0	0	1	1	0	0	0	0	2	0	0	3	8	0	11
4	Smooth coated Otter	Lutrogale perspicillata	9	6	0	15	0	0	4	0	0	0	1	1	0	0	0	0	8	5	4	17
5	Rhesus Macaque	Macaca mulatta	6	7	2	15	0	0	1	0	0	0	0	0	0	0	0	0	6	7	3	16
6	Bear sloth	Melursus urisinus	2	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
7	Mouse deer	Moschiola indica	1	3	0	4	0	0	1	0	0	0	0	0	0	0	0	0	1	3	1	5
8	Asiatic Lion	Panthera leo persica	1	1	0	2	3	1	0	0	0	0	0	0	0	2	1	0	2	1	0	3
9	Leopard	Panthera pardus	3	2	0	5	0	0	0	0	0	0	1	1	0	0	0	0	2	1	0	3
10	White Tiger	Panthera tigris tigris	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	1	0	2
11	Bengal Tiger	Panthera tigris tigris	1	1	0	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
12	Antelop four horned	Tetracerus quadricornis	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
13	Himalayan Black Bear	Ursus thibetanus	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
	Total Mammalia		33	43	12	88	3	1	6	2	2	0	2	2	0	5	5	0	32	39	17	88
REPTILIA :-																						
1	Crocodile Marsh	Crocodylus palustris	1	1	14	16	0	0	0	0	0	0	0	0	0	0	0	0	1	1	14	16
2	Gharial	Gavialis gangaticus	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
3	Indian rock python	Python molurus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	Total Reptila.....		1	2	15	18	0	0	0	0	0	0	0	0	0	0	0	0	1	2	15	18
	Total Animals.		42	57	31	130	3	1	6	2	2	0	4	4	0	5	5	1	39	51	35	125

SR.	Animal Name	Scientific Name	Opening Stock	During the year												Closing Stock
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NO.			as on 01-04-2021				Birth			Aquisition			Disposal			Death			as on 30 - 06-2021				
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T	
AVES:																							
-																							
1	Sarus Crane	Antigone antigone	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	
2	Umbrella Cockatoo	Cacatua alba	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1
3	Sulphur Crested Cockatoo	Cacatua galrita	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
4	Golden phesant	Chrysolophus pictus	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
5	Silver phesant	Lophura nycthemera	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	0	2
6	Emu	Dromaius novaehalladae	2	0	8	10	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	8	10
7	Moluccan Red Lory	Eos squamata	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
8	Chattering Lory	Lorius garrulus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
9	Black kite	Milvus migrans	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
10	Painted stork	Mycteria leucocephala	2	2	4	8	0	0	2	0	0	0	0	0	0	0	0	0	0	2	2	6	10
11	Black Crowned Night Heron	Nycticorax nycticorax	2	2	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	8
12	Cockatiel	Nymphicus hollandicus	0	0	126	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	126	126
13	Great White Pelican	Pelecanus oncorotalus	3	3	0	6	0	0	0	0	0	0	0	0	0	0	1	0	3	2	0	5	
14	Alexandrine perakeet	psittacula eupatria	7	6	4	17	0	0	0	0	0	0	0	0	0	0	0	0	7	6	4	17	
15	Grey Parrot Jacquot	Pisttocus erithacas	2	2	0	4	0	0	0	0	1	0	0	0	0	0	1	0	2	2	0	4	
16	Common Ostrich	Struthio camelus	2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	
17	Black Headed Ibis	Threskiornis melanocephalus	1	2	4	7	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	7	
18	Rainbow Lorikeet	Trichoglossus moluccanus	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	
19	Green Cheeked Conure	Pyrrhura moline	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	2	
	Total Aves.....		26	20	157	203	0	0	2	1	2	0	0	0	0	0	2	1	9	0	158	207	

SR. NO.	Animal Name	Scientific Name	Opening Stock as on 01-04-2021				During the year												Closing Stock as on 30 - 06- 2021			
							Birth			Aquistion			Disposal			Death						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
MAMMALS :-																						
1	Spotted Deer	Axis axis	4	10	1	15	0	0	1	0	0	0	0	0	0	3	8	0	1	2	2	5
2	Hog Deer	Axis porcinus	0	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	2	2	1	5
3	Nilgai	Boselaphus tragocamelus	1	2	0	3	0	1	0	0	0	0	0	0	0	0	1	0	1	2	0	3
4	Hippopotamus	Hippopotamus amphibius	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
5	Striped Hynae	Hyaena hyaena	3	3	0	6	0	0	0	0	0	0	0	0	0	1	1	0	2	2	0	4
6	Indian crestd Porcupine	Hystrix indica	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
7	Indian Muntjac	Muntiacus muntjak	1	1	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1
8	Samber Deer	Rusa unicolor	2	4	0	6	0	0	0	0	0	0	0	0	0	1	0	0	1	4	0	5
	Total Mammals :-		13	22	2	37	0	1	2	2	2	0	0	0	0	6	10	0	9	15	4	28

SR. NO.	Animal Name	Scientific Name	Opening Stock as on 01-04-2021				During the year												Closing Stock as on 30 - 06- 2021			
							Birth			Aquistion			Disposal			Death						
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
REPTILIA :-																						
1	Spectacled Caiman	Caiman crocodilus	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
2	Siemese Crocodile	Crocodylus siamensis	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
3	Indian StarTortoise	Geochelone elegans	11	16	0	27	0	0	0	0	0	0	0	0	0	0	0	0	11	16	0	27
	Total Reptilia :-		11	16	3	30	0	0	0	0	0	0	0	0	0	0	0	0	11	16	3	30
	Total Animals :-		50	58	162	270	0	1	4	3	4	0	0	0	6	12	1	49	51	165	265	
	GRAND TOTAL		92	115	193	400	3	2	10	5	6	0	4	4	0	11	17	2	88	102	200	390

27. Mortality of animals

Sr.No.	Animal Name	Scientific Name	Sex	Date	Cause of death as diagnosed through postmortem
	Mammal				
1	Antelope Black buck	Antelop cervicapra	M	08/04/2021	Acute Infection
2	Deer Spotted	Axis axis	F	13/04/2021	Old age / Senility
3	Asiatic Lion	Panthera leo	M	13/04/2021	Leak of Mother care
4	Asiatic Lion	Panthera leo	F	15/04/2021	Still birth of cub (Delievered dead)
5	Asiatic Lion	Panthera leo	M	16/04/2021	Still birth of cub (Delievered dead)
6	Tiger	Panthera tigris	F	09/06/2021	Haemorrhagic
7	Deer Spotted	Axis axis	F	06/07/2021	Chronic respiratory disease
8	Deer Spotted	Axis axis	M	10/07/2021	Chronic malignancy disease
9	Deer Spotted	Axis axis	M	20/07/2021	Sanility
10	Jackal	Canis aureus	M	21/07/2021	Acute Infection
11	Deer Spotted	Axis axis	F	25/08/2021	Sanility
12	Nilgai	Boselaphus tragocamelus	F	28/08/2021	Sanility
13	Deer Spotted	Axis axis	F	03/09/2021	Sanility & Chronic debility
14	Barking deer	Antelop cervicapra	M	09/09/2021	Sanility
15	Antelope Black buck	Antelop cervicapra	F	15/09/2021	Traumatic shock
16	Antelope Black buck (White)	Antelop cervicapra	F	11/10/2021	Sanility
17	Striped Hynae	Hyaena hyaena	F	14/10/2021	Old age
18	Deer Spotted	Axis axis	F	16/10/2021	Sanility
19	Antelope Black buck	Antelop cervicapra	F	17/10/2021	Pregnency Toxaemia
20	Deer Spotted	Axis axis	F	18/10/2021	Sanility
21	Deer Spotted	Axis axis	F	20/10/2021	Sanility
22	Deer Spotted	Axis axis	M	11/12/2021	Chronic respiratory disease
23	Jackal	Canis aureus	M	19/12/2021	Traumatic shock
24	Samber Deer	Rusa unicolor	M	24/12/2021	Old age
25	Striped Hynae	Hyaena hyaena	M	03/01/2022	Old age
26	Deer Spotted	Axis axis	F	10/01/2022	Sanility
	Birds				
1	Cockatoo (Umbrella crested)	Cacatua alba	F	23/05/2021	Acute Infection
2	Parakeet African Grey	Pisttocus erithacas	F	15/06/2021	Old age / Senility
3	Pelican (Rosey)	Pelecanus oncotralus	F	30/06/2021	Old age / Senility
4	Spoon Bill	Platalea leucordia	U	12/10/2021	Traumatic shock

28. Compliance with conditions stipulated by the Central Zoo Authority

**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) File No.7-10/2020-CZA(PART-I)/I/2447/2020, dt. 25.08.2020
 (2) F. No. 19-117/93-CZA(70)(Vol.V)(PKR)/1856/2017 dt. 27.10.2017
 (3) F. No. 19-117/93-CZA(70)(Vol.V)(M)/4619/ dt. 09.04.2014
 (4)F. No. 19-117/93-CZA(70)(Vol.IV)(M)/ dt. 11.04.2011

Sr. No.	Norm No. under RZR 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regards to compliance of the conditions
1.General requirements:					
1	1(9)	The Zoo Operator has failed to remove the domestic ducks from display, in spite of repetitive reminders from the CZA. All such domestic ducks should be relocated outside the zoo premises.	With immediate effect	27/10/2017	Zoo is not keeping any number of domestic ducks/geese in cages/captivity. Zoo official are in search of some agency, who can take them and keep them upkeep in their premises/farm/resort.
2. Administrative and staffing pattern					
2	2(1)	The Zoo has failed to post full time officer -in-charge at the zoo. The present Officer-in-charge for food and drug licence of Municipal Corporation of Surat. Full time Officer-in-charge should be appointed.	Six months.	27/10/2017	SMC has already advertised the post of Zoo Superintendent recently in year, 2020 and the matter is in process with the competent authority.
3	2(1)	It has been noticed during the evaluation that maintenance of animal enclosures and other infrastructures is not being done on regular basis. It is suggested that may have independent adequate power to take up emergency repair as and when required. The delay in dealing with such repair works was noticed during the evaluation.	with immediate effect	27/10/2018	All pending work of repair and refurbishing of animal enclosures have been completed by the Engineer In-Charge and a certificate of completion has been issued by this office.
3.Development and planning :					
4	3 (1&2)	The Zoo Operator has failed to submit the Master Plan for the long term development of the zoo to Central Zoo Authority for its approval. The CZA has already granted extension of 3 months times for submission of Master Plan. The same period has also been lapsed, the zoo failed to submit the master Plan. Should submit Master Plan to the CZA for approval.	With immediate effect.	27/10/2017	Master (Layout) Plan has already been submitted and approved by the CZA. Management Plan submitted on dated.31/03/2021 for CZA approval.
5	3(5)	A kiosk is being operated in unhygienic manner just after entry to the Zoo. The same should be relocated to an appropriate place and should be maintained hygienically and it should be ensured that no goods are sold in the plastic.	Three months	27/10/2018	SMC has already started renovation and development of entry gate in which provision had already made to shift existing kiosk/ cafeteria outside the zoo premises. This will automatically ban entry of plastic inside the zoo premises.

4. Development and Planning :					
6	4(3,4,&5)	The leopard enclosure should be provided 25% viewing area of the total exhibit to the visitors.	Three months	27/10/2018	Keeping in view We have plant new hedges. Once they will grow sufficiently, we will cut them in the manner, which will allow visitors to view the animal from 25% area only.
7	4(3)	All the aviaries at the zoo should have at least 10-20% area as kaccha floor with soil and live plants	Three months	27/10/2017	All the cages of the aviary have been facilitated with 20% natural bedding material (soil+sand) to provide kaccha floor to the captive birds. Live plants are already in existence.
8	4(3)	The aviaries should have elevated feeding platform for terrestrial birds.	Three months	27/10/2017	All the cages of the aviary have been facilitated with elevated platform.
9	4(9)	The stand-off barrier provided at various animals exhibits needs immediate repair.	With immediate effect	27/10/2017	All ready completed
10	4(9)	The stand-off barriers provided at the aviaries should at a distance of 150 cm from the chain link mesh	With immediate effect	27/10/2018	Pending being this work involves total changes in positioning of railing and walkway but it will be taken to the task soon.
11	4(10)	The zoo should provide directional signage to facilitate the visitors	Three months	27/10/2017	Work of directional signage through out the zoo premises has been completed.
12	4(10)	The signage provided at the zoo does not have much educational values. All the signage's should be assessed and should be upgraded. All signage should have educational value.	Three months	27/10/2017	Educational signage with upgraded version has been fixed up at required and desired places. further timely up gradation will be carried out.
5. Upkeep and healthcare of animals:					
13	5(1)	The sub-adult Sloth bear at the zoo, housed in small cell for long period should be shifted to main enclosure area or it should be provided area as prescribed in the CZA norms.	With immediate effect	27/10/2017	Already shifted to main enclosures.
14	5(2)	The zoo should have diet schedule for each animals prepared and the same should be displayed in animal kitchen area	With immediate effect	27/10/2017	Diet schedule for each animals prepared and displayed in animal kitchen and also in each animal enclosures too.
15	5(4)	The MS sheet covered shade provided to Spotted deer should be covered by coconut leaves or other such material.	With immediate effect	27/10/2017	The MS sheet covered shade provided to Spotted deer has been covered with hay/dry grass/thatch.
16	5(10)	The zoo has failed to maintain the animal history cards in the format as prescribed by the CZA. The records should be maintained.	With immediate effect	27/10/2018	The zoo is maintaining animal history card in the format as prescribed by the cza. Zoo is also maintaining Livestock Register and keeping it always updated.
6. Veterinary and infrastructure facilities:					
17	6(1)	Dr.Shyama Prasad Mukherjee Zoological Garden, Surat, Gujarat being classified as a medium category zoo, but does not have adequate veterinary facility, including the basic veterinary equipments, x-ray machine etc. Should be complied.	Three months	27/10/2017	As Surat city is well facilitated with ultra modern Nandini veterinary hospital and Navsari Veterinary College is very much nearby to Surat zoo, we are availing all these facilities from them under the guidance of subject matter specialist for accurate diagnosis and proper treatment.
18	6(3)	The Zoo does not have appropriately designs isolation and quarantine house. It should be located away from animal exhibit as well as existing veterinary hospital area.	Three months	27/10/2017	Surat zoo has constructed isolation and quarantine house/cages as per the design, drawing and location approved by the CZA and now it's not possible to redesigned and reconstructed elsewhere.
19	6(6)	The zoo should conduct mock drill and various other awareness campaigns including the training the zoo guards, keepers, and	With immediate effect	27/10/2017	Mock drill and various other awareness campaigns including the training the zoo guards, keepers, and other support staff on the issues of disaster are

		other support staff on the issues of disaster			undertaken periodically throughout the year. Arrangement had been made for potable rope stairs at Tiger, Lion and Bear open moat for emergency use.
9.Acquisition and breeding of animals:					
20	9(7)	The Zoo had been housing 105 nos. of healthy Rose ringed parakeet. the surplus population of Rose ringed parakeet should be released into the natural habitat after due screening of their health and it should be ensured that protocols laid by th CZA/IUCN in this regard are followed or the birds may be given to other recognized zoo with prior approval from CZA and CWLW of the State.	Should be comply	27/10/2017	These 105 nos. of healthy Rose ringed parakeet have been seized and rescued by the Forest Department and on request of them, these have been kept temporarily at the zoo (with the order of the court). If some zoo will submit a demand for them, we will spare them immediately with the permission of CZA and State Forest Department.

29. List of free living wild animals within the zoo premises

a. Mammals

No.	Name of the animal	Scientific Name
1.	Grey Mongoose	Herpestes edwardsii
2.	Small Indian Mongoose	Herpestes javanicus
3.	Ruddy Mongoose	Herpestes smithii
4.	Indian Civet	Viverricula indica
5.	Bats	Chiroptera
6.	Three Stripped Palm Squirrel	Funambulus palmarum
7.	Large Bandicoot Rat	Bandicota indica
8.	Hanuman Langur	Semnopithecus entellus
9.	Indian Hare	Lepus nigricollis

b. Birds

No.	Name of the bird	Scientific Name
1.	Little Cormorant	Phalacrocorax niger
2.	Grey Heron	Ardea cinerea
3.	Cattle Egret	Bubalbus ibis
4.	Little Egret	Egretta garzetta
5.	Black Kite	Milvus migrans govinda
6.	Shikara	Accipiter trivirangatus
7.	Indian Peafowl	Pavo cristatus
8.	White Breasted Waterhen	Amaurornis phoenicurus
9.	Rock Pigeon	Columba livia
10.	Spotted Dove	Streptopelia chinensis
11.	Rose Ringed Parakeet	Psittacula krameri
12.	Plum Headed Parakeet	Psittaculcyano cephalo
13.	Asian Koel	Eudynamis scolopacea
14.	Spotted Owlet	Athene brama
15.	House Swift	Apus affinis
16.	Pied King Fisher	Ceryle rudis
17.	Green Bee Eater	Merops orientalis
18.	Indian Roller	Coracias benghalensis
19.	Black Rumped Wood Pecker	Dinopium benghalenses
20.	Small Skylark	Alauda gulgula
21.	Jungle Myna	Acridotheres fuscus
22.	House Crow	Corvus splendens
23.	Large Billed Crow	Corvus macrorhynchos
24.	Red Vented Bulbul	Pycnonotus cafer
25.	Asian Paradise Fly Catcher	Terpsiphone paradise
26.	Tailor Bird	Orthotomus sutorius
27.	Oriental Magpie Robin	Copsychus saularis
28.	White Wagtail	Motacilla alba
29.	House Sparrow	Passer domesticus
30.	Red Avadavat	Amandava amandava
31.	Black Headed Ibis	Threskiornis melanocephalus

c. Reptiles

No.	Name of the animal	Scientific Name
1.	sand Boa	Eryx conicus
2.	Viper Saw Scaled	Echis carinata
3.	Snake Rat / Dhaman	Ptyas mucosus

4.	Cobra Indian	Naja nanja
5.	Trinket snake	Coelognathus helena
6.	Green vine snake	Ahaetulla nasatu
7.	Indian wolf snake	Lycodon aulicus
8.	Bamboo pit viper	Tremeresus gramineus
9.	Checkered Keelback	Xenochrophis piscator
10.	common Krait	Bungarus caeruleus
11.	Turtle Fresh Water /Indian Soft Shelled	Presdypis entellus