

**ADMINISTRATION OF DAMAN & DIU AND DADRA & NAGAR HAVELI (U. T.),  
OFFICE OF THE DEPUTY CONSERVATOR OF FOREST (WILDLIFE),  
DNH, SILVASSA.**

F.No.7-2/548-FD/2016/945

Date: 14<sup>th</sup> December, 2020

To,

Member Secretary,  
Central Zoo Authority,  
Ministry of Environment Forest and Climate Change,  
B-1 Wing, 6<sup>th</sup> floor,  
Pt. Deendayal Antyodaya Bhavan,  
CGO Complex, Lodhi Road,  
New Delhi-110 003

**Subject: - Submission of Statutory Annual Report of the Zoo  
to the Central Zoo Authority for the year 2019-20 -reg.**

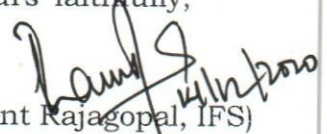
**Reference: - You're Letter No.18-4/2018-CZA/3891/2018 dated  
17/07/2018.**

Sir,

With reference to the Subject cited above, the Annual Report of Lion Safari, Vasona, Dadra & Nagar Haveli for the year 2019-20 is enclosed herewith.

Submitted for kind information please.

Yours' faithfully,

  
(Prashant Rajagopal, IFS)  
Deputy Conservator of Forest (WL) and  
Conservator of Forest,  
Daman & Diu, Dadra & Nagar Haveli,  
Silvassa.

Encl: As above



**LION SAFARI VASONA**  
**Annual Report for the year**  
**2019-20**



Prepared by  
FOREST DEPARTMENT  
WILDLIFE DIVISION  
DADRA & NAGAR HAVELI  
SILVASSA  
LION SAFARI VASONA



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

The Lion Safari Vasona Dadra and Nagar Haveli is one of the centres of wildlife conservation through which recreation and environmental education is imparted. Every effort has been made to provide required housing, feed and health care to all the animals in the zoo. The number of visitors visiting to the Lion Safari, Vasona is increasing year after year. This zoo has been recognized as a Mini Zoo by the Central Zoo Authority of India and now the steps have been taken up for its improvement by carrying out necessary development works to create good infrastructure. The area of the Zoo is 19.64 Ha and during the year of report a total of 85, 501 guests visited the park, resulting in an income of Rs 18, 18,985.00. Adequate measures are carried out to provide required visitor amenities like Resting Shelters, Drinking Water, and Toilets. Regular training camps and awareness tour are conducted to mainly students and teachers. Animal health care is an important function in the Zoo and it is our endeavour to ensure that the animals are screened regularly for occurrence of any disease, timely that is prophylactic measure are taken. The animal sanitation and hygiene is also maintained well. The zoo staff work sincerely and with devotion to their job in order to ensure a healthy environment for animals.

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

The Portuguese occupied Dadra and Nagar Haveli between 1783 and 1785 and about 170 years of Portuguese rule was brought to an end on 2 August 1954 by the volunteers of Goa parties acting in close cooperation with the local inhabitants. After its liberation, the administration of the territory was carried on by an Administrator with an Advisor to advise him on all administrative matters and soon steps were taken to associate the local people in the administration by the creation of Varistha Panchayat and Group Panchayat. On 12th June 1961, the Varistha Panchayat unanimously passed a resolution for integration with the Indian Union. On 11.08.1961, the territory became nationally united by the Dadra and Nagar Haveli Act 1961 (No.35 of 1961) passed by the Parliament. Consequently, the free Dadra & Nagar Haveli Administration was succeeded by a formal statutory Administration headed



by an Administrator, Dadra and Nagar Haveli comprising of 65 villages and one town Statutory and 5 Census Town from a single district and single taluka as Union Territory. All the villages have been divided into 11 Patelads for revenue purposes, each in the charge of Patel Talati who is also the ex-officio Secretary to the Group Panchayat. The Administrative head of the Union Territory is the Administrator who is also the Administrator of Daman & Diu. The population is 3,43,709 as per the 2011 census with 51.95 % of the population tribal with Varli, Dhodia, Kikna, Kathodi, Koli, Dhor and Naik tribes. The forest area covers 492 sq. km with 107 sq. km as Reserve Forest and 92 sq. km as wildlife Sanctuary.

The Lion Safari is situated 10 km away from Silvassa and is well connected by road. The UT is visited by more than 1 (one) lakh tourists per year and the lion safari is a much sought after tourist attraction with nearly 70 thousand tourists visiting every year. The Lion safari is a part of Dadra & Nagar Haveli Wildlife Sanctuary and the habitat here has been especially created and maintained as per the wild natural habitat of the Asiatic lion. The idea for creation was shown in the year 1987-8., The Forest Department had initiated the lion safari project at village Vasona survey No. 147 and 148 by initially enclosing 6.68 hectare area of Reserve Forest on 4<sup>th</sup> July, 1988 in the first phase. Major works were accomplished by the year 1999-2001 and CZA gave permission for mini-zoo in the year 2002. Lion Safari was opened for public on 4<sup>th</sup> October, 2005.. This area was expanded to the present area in the second phase of expansion. A third phase of development is being planned with a panther cage and display enclosure.

### **3. Vision**

CARE (Conservation, Awareness, Research & Education)

### **4. Mission**

To promote wildlife conservation by serving as a quality recreation spot within an educative environment.

**Collection Plan-** The Lion Safari is dedicated to the pure Asiatic lion and the overall collection plan is with the objective of maintaining a viable population level of the lion. Breeding programmes with others zoos will be executed after checking their pedigrees for pure breeds only. The DCF (WL) is the authority to deal with all CZA correspondences and is assisted by ACF (WL).

**Conservation breeding-** The Lion Safari is a part of in-situ captive breeding of Asiatic lion, however despite successful pregnancies the 2 cubs could not survive and as such till date successful breeding has not been achieved. However, efforts are being made by the Wildlife Division in coordination with the Junagad Veterinary facility and the CCMB, Hyderabad, Anand Veterinary College etc to carry out scientific investigation into the reasons for this failure and rectify the same.

## 5. Objective

The basic objectives of establishing the Zoo/safari in this UT were

- 1) Conservation of an endangered species – The lions here are pure breed Asiatic lions *Panthera leo persica*. Only 3 zoos i.e Junagad, Rajkot and Dadra & Nagar Haveli are presently maintain breeding stocks of purebred Asiatic lions.
- 2) To create an education and general awareness regarding the importance of wild animals and conservation of the natural habitat through the adjoining interpretation area.
- 3) To provide an opportunity for scientific study and creation of a database useful for ex-situ conservation.
- 4) To increase the ecotourism potential of the Union Territory by establishment of a Mini-Zoo.



6. About us

	Particular	Information
<b>Basic Information about the Zoo</b>		
1	Name of the Zoo	Vasona Lion Safari
2	Year of Establishment	04/10/2002
3	Address of the Zoo	Vasona Lion Safari, Vasona village - Pati Road,Dadra and Nagar Haveli PIN 396230
4	State	(UT)Dadra & Nagar Haveli
5	Telephone Number	0260-2643048
6	Fax Number	0260-2642734
7	E-mail address	dcfwl-dnh@gov.in
8	Website	----
9	Distance from nearest	Airport: Surat- 147 km
		Mumbai-149 km
		Railway Station: Vapi- 26 km
		Bus Stand :- Silvassa 10 km
10	Recognition Valid upto Date	19/08/2021 <i>File No.7-10/2020-CZA(PART-I) dated 25<sup>th</sup> August, 2020</i>
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	19.64 Ha
13	Number of Visitors (Financial Year)	Adult: 64097
		Children: 21376
		Total Indian: 85437
		Total Foreigners: 28
		Total Visitors: 85501
14	Visitors Facilities Available in Zoo	Parking Area, Reception/waiting area, Kiosk, Ticket Window, Wheel chair for Divyang Visitors, Garden area, Tree Shade sit out, Drinking Water Facility, Wash Rooms, First Aid Kit, Vehicles for Safari.
15	Weekly Closure Day of the Zoo	Every Monday

Management Personnel of the zoo		
16	Name with designation of the Officer In-charge	Forester
	Name of the Veterinary Officer	Dr Vijay B Parmar
	Name of the Curator	--
	Name of the Biologist	--
	Name of the Education Officer	--
	Name of the Compounder/Lab Assistant	--
Owner /Operator of the Zoo		
17	*Name of the Operator	Deputy Conservator of Forests (WL)/Conservator of Forest, DD & DNH-Silvassa, Prashant Rajagopal, IFS.
18	Address of the Operator	Deputy Conservator of Forest/Conservator of Forest, DD & DNH, Wildlife Division, Van Bhavan, DNH-Silvassa, Opp. Fire Station, Pipariya.
19	Contact details/ Phone number of Operator	0260-2643048
		0260-2642734
20	E-mail address of Operator	dcfwl-dnh@gov.in

\* Rule 2(m) of the Recognition of Zoo Rules, 2009.

"Zoo Operator" means the person who has ultimate control over the affairs of the zoos provided that\_\_

- I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or
- II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or
- III. in case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case maybe the Union Territory Administration, shall be deemed to be the Zoo Operator.

## 7. Organizational Chart

- a. Conservator of Forests/ Deputy Conservator of Forests (WL)
- b. Assistant Conservator of Forests (WL)
- c. Range Forest Officer (WL)
- d. Forester
- e. Forest Guard



## 8. Human Resources

### Manpower of the Zoo\*

	Designation	Number of Sanctioned Posts	Names of the incumbent	Remark
1	Deputy Conservator of Forests (WL)	01	-	Sanctioned post
2	Assistant Conservator of Forests (WL)	01	-	Additional Posts
3	Forester	01	-	"
4	Veterinary Officer	01	-	"
5	Stockman	01	-	"
6	Forest Guard	02	-	"
7	Animal Keeper cum attendant	03	-	Regular (DW)
8	Driver	02	-	Regular (DW)
	<b>Total...</b>	<b>12</b>	<b>-</b>	

\*Please give above mentioned information in respect all zoo personnel, from the Office In-charge up to the Animal Keeper.

## 9. Capacity Building of zoo personnel

	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1	-	-	-	-

## 10. Zoo Advisory Committee -

a. Date of constitution: --NIL--

b. Members

c. Dates on which Meetings held during the year

## 11. Health Advisory Committee -

a. Date of constitution: 20/09/2004

b. Members: 06

c. Dates on which Meetings held during the year : NIL

## 12. Statement of income and expenditure of the Zoo

1. Income : Rs 18,18,985.00

2. Expenditure : Rs 29,14,899.00

### 13. Daily feeding Schedule of animals

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	<i>Panthera leo persica</i>	Buffalo Meat	8 Kg per Animal		Monday

### 14. Vaccination Schedule of animals

Sl. No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	<i>Panthera leo persica</i>	Against feline pan leucopenia, herpes virus, calici virus, rabies virus.	-TBD-	1 ml per Animal	Annual

### 15. De-worming Schedule of animals

Sl. No.	Species	Drug used	Month	Remarks
1	<i>Panthera leo persica</i>	Albendazole Fenbendazole (Fentas plus, Albomar, Panacur, aloxy bolus, all clear tab)	10/04/2019 15/05/2019 27/06/2019 27/09/2019 27/12/2019 27/03/2020	Quarterly (3 Monthly), de-worming by changing of drug

### 16. Disinfection Schedule

Sl. No.	Species	Type of enclosure	Disinfectant used and method	Frequently of disinfection
1	<i>Panthera leo persica</i>	1. RCC with Iron Cages 2. Secondary Cages 3. Kraal	1. Kohrsolin is used for as Disinfectant 2. Gas fire treatment to floor and walls /corner	Daily  Every Fifteen (15) days



17. Health Check-up of employees for zoonotic diseases

Sl. No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Shri Jitesh Kashi Mahala	Zoo Keeper	30/10/2019	Normal
2	Shri Somu Bablu Bhoya	Zoo Keeper	30/10/2019	Normal
3	Shri Suresh Arjun Boba	Zoo Keeper	30/10/2019	Normal

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

The major works like Tree shade, Children playing area, Visitors Parking area, Shade in the Bus waiting area and Automation of Main Gate works are done.





**19. Education and Awareness programmes during the year**

Education awareness programme carried out during celebration of wildlife week 2019, Children's from different localities of territory visited the safari with briefing and importance of zoo and animals. Safai Abhiyan awareness works were carried out with people's participation of nearby villages.

**20. Important Events and happenings**

One Female lioness name Sonal Expired on 11/06/2019.

**21. Seasonal special arrangements for upkeep of animals**

Arrangements for the cooler cum heater are made for summer and winter respectively. During summer to protect the animals from heat wave jute cloth are placed from outside the cages and moistened by sprinkling water regularly. In summer during early morning and evening hrs water is sprinkled on land area near the cage area to keep down the temperature of the area. Sand bed arrangements made in advance in the lioness cage.

**22. Research work carries out and publications**

No such research and publication works done in the period.

**23. Conservation Breeding Programme of the Zoo**

With the current population, the acquisition of a pair of Lions is under way.

**24. Animal acquisition / transfer / exchange during the year**

A.	Animals arriving in the Zoo						
	H. No.	Species	Number (M:F)	From which Zoo	Date arrival in the zoo		
	-NIL-						
B.	Animal going from the zoo						
	H. No.	Species	Number (M:F)	Going to which Zoo	Date deposition from the zoo	of	
	-NIL-						



25. Rescue and Rehabilitation of wild animals carries out by the Zoo

Sl. No.	Date of Rescue	Species with number of animals rescued with their sex(M:F:U:T)	Receives 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: 2019-20

Endangered Species\*

Sr. No	Name	Scientific Name	Opening Stock as on 01/04/2019				Births			Acquisition			Disposals			Deaths			Closing Stock as on 31.03.2020			
Bird			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1.			-----NIL-----																			
Total Birds																						
Mammal 1.	Lion	<i>Panthera leo persica</i>		2	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1
Total Mammal	Lion	<i>Panthera leo persica</i>		2	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1
Reptile/ Amphibian 1.			-----NIL-----																			
Total Reptile/ Amphibian																						
Total Animal	Lion	<i>Panthera leo persica</i>		2	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	1

\*Animals under Sch. I and II of Wild Life (Protection) Act, 1972

Part – B

Other than Endangered Species

Sr. No	Name	Scientific Name	Opening Stock as on 01/04/2019				Births			Acquisition			Disposals			Deaths			Closing Stock as on 31.03.2020			
Bird			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
			-----NIL-----																			
Total Birds																						
Mammal			-----NIL-----																			
Total Mammal																						
Reptile/ Amphibian			-----NIL-----																			
Total Reptile/ Amphibian																						
Total Animal																						

## 27. Mortality of animals

Sl. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the post-mortem report
1	Lionness  SONAL Stud # 443 D.O.B 02/03/1999	<i>Panthera leo persica</i>	Female	11-06-2019	"The lioness passed away due to age"

## 28. Compliance with conditions stipulated by the Central Zoo Authority

Sr. No.	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
1	<b>General requirements</b>				
	1.2	The complex containing night houses, administrative building etc. should be camouflaged by planting the suitable plant species like bamboo etc so they are not visible to the visitors inside the safari to create natural environment inside the safari. The animal houses should be painted with camouflaging colour with the nature. The present colour of the complex is prominently visible from a distance while taking round inside the safari.	Within one year	-	Reported completion in the year 2018-19.
	1.7	The Safari should make proper arrangement for managing solid and liquid waste and storm water.	Within a year	-	Reported completion in the year 2018-19.
2	<b>Administrative and Staffing pattern</b>				
	2.2	The Safari should appoint full time veterinary office to look after the upkeep and health of animals.	Within a year	Since starting	Presently care by veterinary doctor Silvassa. Proposal under submission with MoEF&CC. Pending
	2.3	The scientific and technical posts should be created and filled up by direct recruitment. The recruitment Rules for such posts should provide for their career progression including the benefit of flexible complementing scheme for their promotions.	Within a year	Since starting	Pending



3	<b>Development and Planning</b>				
	3.1	The Master Plan for the future long-term development of safari should be prepared and got approved from CZA	Within two month	Since starting	Plan will be finalized in FY 2020-2021.
4	<b>Animal housing, display of animal enclosures</b>				
	4.3	The operation of the doors of the enclosures should be made safe and secure for the animal. At present the animal is not visible at the point from which it is operated.	Within six month	-	Reported completion in the year 2018-19.
5	<b>Upkeep and healthcare of animal</b>				
	5.2 (1) (a)	The calcium carbonate powder should be mixed in the diet in appropriate quantity to meet the nutritional need of the animal.	With immediate effect	-	The arrangement is made.
	5.1 (5)	The beef should be necessarily checked by the vet on daily basis for its quality.	With immediate effect	-	The beef is checked regularly.
	5.2 (6)	The Safari should start testing random food and water sample for microbiological and toxicological parameters.	With immediate effect	-	The tests are done.
	5.3(4)	The safari should maintain written schedule of vaccination and de-worming of each of the animals and it should be displayed at the enclosure of the animal.	With immediate effect	-	Written Schedule is made.
	5.3 (5)	The safari should maintain detailed records of observations of biological and social behavior and health status of the animals including feed intake, medication and treatment in Keeper's Diary, Daily Reports, animal History Cards and Treatment Cards, as per standards specified by the CZA.	With immediate effect	-	Records are maintained.
	5.3 (8)	The safari should have formal linkages with Veterinary College through an MoU on healthcare, preventive medicine, surgical interventions, clinical tests, diagnosis and consultation etc.	Within a year	-	Formal linkages are in progress with NAU and drawing MoU is yet to be done.
6	<b>Veterinary and infrastructure facilities</b>				
	6.1 (b)	Life saving drugs for animals should be readily made available in the stock.	With immediate effect	-	The drugs are made available.
	6.1 (e)	The safari should have basic health monitoring equipment in the hospital.	With immediate effect	-	Yes
	6.3	The veterinary support personal should be recruited or engaged on contract.	With immediate effect	-	Consulting doctor visits periodically every 3 months.

	6.4	The veterinary officer should be imparted requisite training/education in wildlife medicine/health through proper exposure/visit and orientation courses.	Within a year	-	Visit to Borivalli National park and consultation with veterinary officers arranged.
7	<b>Post. Mortem and disposal of carcasses of animals</b>				
	7.1	The post-mortem should be conducted of every animal that die in the safari and finding be recorded and maintained as per the format prescribed by CZA for a period of six years.	With immediate effect	-	This is in practice
12	<b>Visitors Facilities</b>				
	12.1 & 12.3	The Safari should provide ramps and wheel chairs for the <i>divyang</i> visitors in the bus meant to take visitors on a round of safari.	With immediate effect	-	Reported completion in the year 2018-19.

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

- a. Mammals: - Squirrels.
- b. Birds: - Peacock, kingfisher, Crow pheasant, Woodpecker etc, commonly found in the forests are sighted in the area.
- c. Reptiles: - Cobra, Russel Vipers, Rat Snake, Water Snake, and Indian rock python, frog, tortoise, are sighted in the area.

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