

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

F.No.7-2/548-FD/2016/ 935

Date: - 17 October, 2019

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 Inventory Report of the Zoo  
to the Central Zoo Authority for the year 2018-19 -reg.**

Sir,

With reference to the Subject cited above, the Annual Report of Lion Safari,  
Vasona, Dadra & Nagar Haveli for the year 2018-19 is enclosed herewith.

Submitted for kind information please.

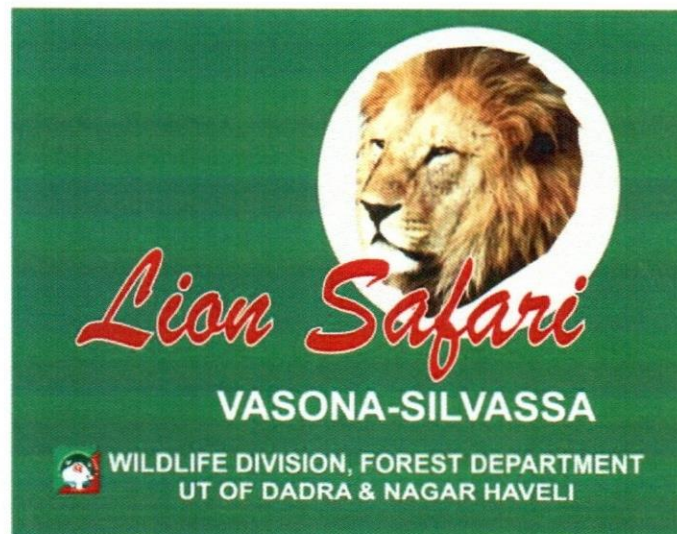
Yours' faithfully,

  
(Ashwin Parihar, IFS)  
Deputy Conservator of Forest (WL),  
Dadra & Nagar Haveli,  
Silvassa.

Encl: As above

# LION SAFARI VASONA

Annual Report for the year  
2018-19







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 centre 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. 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 animal 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 works with sincerity and devotion to their job in order to ensure a healthy environment for animals.

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

The UT has a history starting from 1779 when the Marathas gave the revenue of these 72 villages to the Portuguese. Portuguese rule continued till 1954 when they were driven out of the territory by rebellion. Then followed a Dadra & Nagar Haveli Free Administration till 1961 after which this territory merged with the union of India. The UT has 72 villages spread over an area of 491 sq.kms in 2 enclaves in "Dadra" and "Nagar Haveli" areas. The population is 2, 20,452 as per the 2001 census with 62% 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 idea for creation was shown in the year 1987-88, major works were accomplished in the year 1999-2001. CZA gave permission for mini-zoo in the year 2002. Subsequently three lions one male and two female.

### **3. Vision**

CARE (Conservation, Awareness, Research & Education)

### **4. Mission**

To promote wildlife conservation through quality recreation and educational environment.

**Climate** – The climate is basically humid to equable due to proximity to the sea. The diurnal range variation in temperature normally does not exceed 170. The months of October and November are warm cloudy and humid followed by wintery December, January, February. The summer is severe from March to June and the monsoons are from July to September the average annual rainfall is about 100-120 inches. There is no frost occurrence in the area; however dew is observed till the end of Jan. Dew in the non-rainy months significantly contributes to precipitation. The humidity varies from 30% to 85% throughout the year.



**Demography of the surrounding area** – Village Vasona – The existing land use pattern is 0.04 sq. km. As Gothan/hamlet area, 0.08 sq.kms is industrial area, 3.96 is irrigation command area, 0.55sq.kms is reserves forest area, 0.18 is road, and 0.04 is water body. The population of Vasona is 3184 (2001 census). There is no urban center in Vasona,

**Legal status of the land** – The Dadra and Nagar Haveli Wildlife Sanctuary as notified by gazette number ---- in the year 2000. 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 sought after tourist attraction where nearly 70 thousand tourist visit per 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. Lion Safari was opened for public w.e.f. 04<sup>th</sup> October 2005. The Forest Department had initiated the lion safari project at village Vasona survey No. 147 and 148 by initially enclosing 6.68 hector area of Reserve Forest on 04/07/88 in the first phase. This area was expanded to the present area in the second phase of expansion. A third phase of development was planned with a panther cage and display enclosure.-

**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 programmers with others zoos will be executed after checking their pedigrees for pure breeds only. The DCF (WL) is the authority to deal with the CZA correspondence assisted by ACF (WL).

**Conservation breeding-** The Lion Safari is a part of in-situ captive breeding of Asiatic lion, however till date successful breeding has not been observed. Efforts are being made by the Wildlife division in coordination with the Junagad Veterinary facility and the CCMB, Hyderabad, Anand vet collage to carry out scientific investigation into the reasons for this failure and the means to rectify the same.

## 5. Objective

The basic objectives of establishing the safari in this UT were

- 1) Conservation of an endanger species – The lions here are pure breed Asiatic lions *Panthera leo persica*. Only at 3 places Junagad, Rajkot and Dadra & Nagar Haveli presently maintain breeding stocks of purebred Asiatic lions.
- 2) To create an education and general awareness regarding the importance of wild animals and conservations of the natural habitat through the interpretation area at the adjoining Nature Education Center.
- 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**

S. No.	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 (Dispatch table T-Division
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)	23/08/2019
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	19.64 Ha
13	Number of Visitors (Financial Year)	Adult: 65991 Children: 27930 Total Indian: 93921 Total Foreigners: 41 Total Visitors: 93962
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
<b>Management Personnel of the zoo</b>		
16	Name with designation of the Officer In-charge	V. B. Bhandari, 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	--
<b>Owner /Operator of the Zoo</b>		
17	*Name of the Operator	Deputy Conservator of Forests (WL) Ashwin J Parihar IFS,
18	Address of the Operator	Deputy Conservator of Forest, Wildlife

		Division, Van Bhavan, DNH-Silvassa, Opp. Fire Station
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

- Deputy Conservator of Forests (WL)
- Assistant Conservator of Forests (WL)
- Range Forests Officer (WL)
- Forester
- Forest Guard

## 8. Human Resources

### Manpower of the Zoo\*

Sl. No.	Designation	Number of Sanctioned Posts	Names of the incumbent	Remark
1	Deputy Conservator of Forests (WL)	01	-	Sanction 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>	-	



\*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

Sl. No.	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 -

- Date of constitution: --NIL--
- Members
- Dates on which Meetings held during the year

### 11. Health Advisory Committee -

- Date of constitution: 20/09/2004
- Members: 06
- Dates on which Meetings held during the year : No

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

- Income ` 2071820
- Expenditure ` 2876914

### 13. Daily feed Schedule of animals

Sl. No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	Panthera leo persica	Buffalo Beef	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	Panthera leo persica	Against feline pan leucopenia, herpes virus, calici virus, rabies	Biofel PCR HR 29/01/2019	1 ml per Animal	Annual

		virus.			
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**15. De-worming Schedule of animals**

Sl. No.	Species	Drug used	Month	Remarks
1	<i>Panthera leo persica</i>	Albendazole Fenbendazole	24/04/2018 11/07/2018 09/10/2018 08/02/2019	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. Krawl	1. Kohrsolin is used for as Disinfectant 2. Gase 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	19/09/2018	Normal
2	Shri Somu Bablu Bhoya	Zoo Keeper	19/09/2018	Normal
3	Shri Suresh Arjun Boba	Zoo Keeper	19/09/2018	Normal

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

No such major development works done, minor maintenance as required were carried out.



### **19. Education and Awareness programmers during the year**

Education awareness programme carried out during celebration of wildlife week 2018, 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.





## 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.

## 22. Research work carries out and publications

### 23. Conservation Breeding Programme of the Zoo

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

## 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
<b>-NIL-</b>						



Inventory Report for the Year: 2018-19

### Endangered Species\*

[illegible]

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

Part - B

## Other than Endangered Species

[illegible]

**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	Lion	<i>Panthera leo persica</i>	Male	08-05-2018	"The lion died due to obstruction in the terminal portion of Large intestine and small bone pieces in remaining part of large intestine which led to peritonitis"

**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	-	The work is done as proposed
	1.7	The Safari should make proper arrangement for managing solid and liquid waste and storm water.	Within a year	-	The work is done as proposed
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 beginning	Not yet made but the Work is being taken care of by veterinary doctor Silvassa Proposal is under correspondence already submitted for the post.



	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 yet to be Finalized
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	-	The arrangement is made
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 the Keeper's Diary, Daily Reports, animal History Cards and Treatment	With immediate effect	-	Records are maintained

		Cards, as per standards specified by the CZA.			
	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 veterinary doctor is visits periodically within 3 month
	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 Borivalli National park and consults the veterinary officers
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 s 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 divayang visitors in the bus meant to take visitors on a round of safari.	With immediate effect	-	The arrangement is made





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

- a. Mammals: - No such free ranging mammal saw in the area.
- 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 cited in the area.