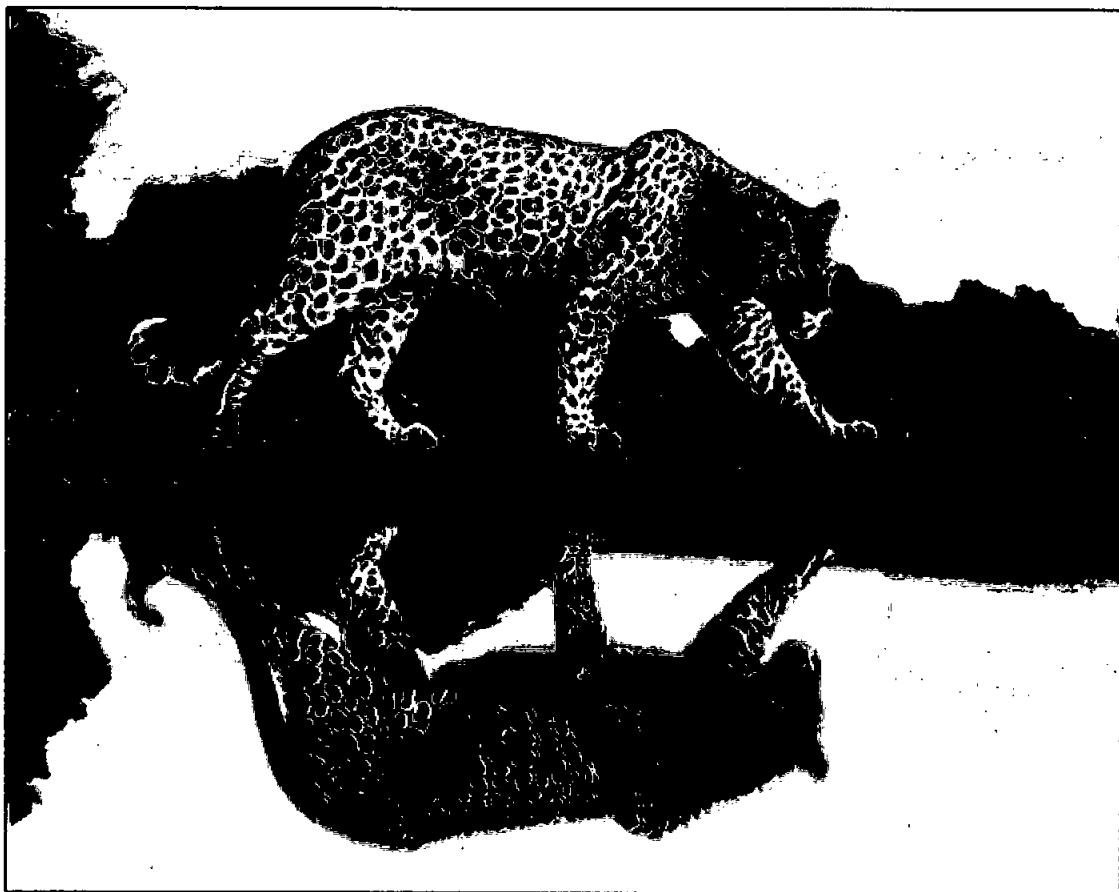


Submitted vide letter dt. 11.05.2016

MASTER PLAN  
PANTHER SAFARI

260 Ranges  
Scan Do

AT VILLAGE TAREGHAR (KELADWADI), TEHSIL ROHA, DISTRICT RAIGAD,



MAHARASHTRA

Forest Department, Government of Maharashtra

and

Yashomala Farming and Tourism Pvt. Ltd. (YFTPL), Pune

(as per the MoU signed between Principal Chief Conservator of Forests (WL),  
Govt. of Maharashtra  
and Yashomala Farming and Tourism Pvt. Ltd., Pune, dated 7<sup>th</sup> October, 2008)

2016 - 2026

## Certificate

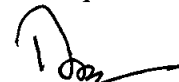
This is to certify that the Master Plan for the long term development of the Panther Safari at Roha, Dist Raigad,(Maharashtra ) has been prepared by the undersigned following the guidelines and format as prescribed by the Central Zoo Authority .



(Aniruddha P. Deshpande)  
Managing Director  
Yashomala Farming & Tourism Pvt. Ltd, Pune

Date: 10-05-2016

Master Plan of Panther Safari at Tareghar, Roha in District Raigad, Maharashtra for 2016 to 2026 is approved in the 79<sup>th</sup> Meeting of the Technical Committee of the Central Zoo Authority held on 24<sup>th</sup> August, 2016 subject to the condition that the responsibility of mobilizing the financial resources for implementation of the Master plan will be sole responsibility of the Yashomala Farming and Tourism Pvt. Ltd., Pune and Forest Department, Government of Maharashtra.



Member Secretary  
Central Zoo Authority  
(Ministry of Environment, Forests and Climate Change, Government of India)  
New Delhi

Date: 5.09.2016

Dr. D. N. SINGH, IFS  
Member Secretary  
Central Zoo Authority  
Ministry of Environment, Forest & Climate Change  
Govt. of India, New Delhi-110003

## Preface

Yashomala Farming and Tourism Pvt. Ltd, Pune has been established in 1989 with an objective to develop and create 'Public Awareness towards the Environment'. The body has proposed to setup a Panther Safari with an intention to promote animal welfare and help the forest department in rescue and rehabilitation of the panthers in the state of Maharashtra and convey the message on conservation of the species among the public.

In addition to this role the body has drawn up a master plan for the long term development of the panther safari and its scientific management.

We are confident that this master plan will meet the requirement laid by the Central Zoo Authority and directives as of the Forest Government of Maharashtra.



(Aniruddha P. Deshpande)  
Managing Director  
Yashomala Farming & Tourism Pvt. Ltd, Pune  
Date: 10-05-2016

## Acknowledgement

I hereby extend my heartiest thanks to the Principal Chief Conservator of Forests and Chief Wild Life warden, Government of Maharashtra, Nagpur for agreeing to sign the Memorandum of Understanding (MOU) between Forest Government of Maharashtra for setting of the Panther Safari at Roha. I sincerely thank the Member Secretary of the Central Zoo Authority for considering this unique project proposal and granting permission to establish Panther Safari at Roha.

I also look forward to continual help and encouragement in future from the Central Zoo Authority. I would like to extend sincere thanks to Mr. B. Majumdar, Ex-Principal Chief Conservator of Forests, Government of Maharashtra, Nagpur who guided and consented to sign the MOU for setting up of Panther Safari at Roha.

I also thank Chief Conservator of Forests, Thane circle for his insights and guidance for this project. I thank Deputy Conservator of Forests, Roha for his constant guidance and support for this project.


My sincere thanks goes to Dr. Erach Bharucha, Member Central Zoo Authority and Director of Institute of Environmental Education and Research of Bharti Vidyapeeth Institute and Dr. Brij Kishor Gupta, Evaluation and Monitoring Officer, Central Zoo Authority who inspected the proposed site as a team member from the Central Zoo Authority and made valuable suggestions.

I thank Mr. Neelim Khaire, Ex-Director Rajiv Gandhi Zoological Park, Katraj, Pune for providing technical information with respect to the management of the wild animals in captivity.

I would also like to thank Shrikant Bhutkar, General Manager Yashomala Farming and Tourism Pvt. Ltd. for his dedicated guidance and support.

I sincerely thank Architect Mahesh Nampurkar of Suman Shilp, Pune for his valuable assistance in laying out the Master Layout Plan, Design and Cross Sections.

I would like to thank D.M.Muthe, Senior Project Consultant, for valuable inputs since the inception of the project.



(Aniruddha P. Deshpande)  
Managing Director  
Yashomala Farming & Tourism Pvt. Ltd, Pune  
Date: 10-05-2016

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## PART I

### CHAPTER I

#### 1.1 Introduction

Yashomala Farming and Tourism Pvt. Ltd, Pune has been established in 1989 with an objective to develop 'Public Awareness towards the Environment'. The company harbours a deep affection towards the conservation of wildlife and the rich flora and fauna of the region. In response to this affection towards the nature and its creatures, Yashomala Farming and Tourism Pvt. Ltd., Pune has decided to setup a Panther Safari by extending our prime land which is blessed with an exquisite secondary forest. We intend to develop this land with the support of the Forest Department of Maharashtra State. The Memorandum of Understanding (MOU) has been officially signed and exchanged on 7th October, 2008 between the Principal Chief Conservator of Forest (WL) Forest Department, Government of Maharashtra and Yashomala Farming and Tourism Pvt. Ltd. with an objective to rescue and rehabilitate Panthers in the State of Maharashtra, to conserve, educate and create awareness, to provide the visitors an absorbing and rewarding experience, to research and understand Panther-man conflict issue and come out with strategy which may help the Forest Dept of Maharashtra to minimize the conflict cases. A signed copy of the MOU is included in the Annexure. A total of 20.03 hectares of land has been earmarked for this development. This proposed site will have Natural Open Enclosures for the housing the Panthers rescued by the Forest Department of Maharashtra at the Rescue Centre and free ranging Panthers in the Safari area.

#### 1.2 Why Panther Safari?

Rapid unplanned development has resulted in the immense pressure leading to the encroachment on the wildlife habitat. As a result, many species of wild animals have started straying into human settlements and are either killed or captured. To highlight an illustrating fact; in Maharashtra alone, more than 100 Panthers strayed into human habitat in the last three years. The state forest department has more than 50 Panthers that have been kept in captivity and they need proper housing. The forest departments in most part of the country do not have the infrastructure or the resources to rehabilitate these animals as per the guidelines prescribed by the Central Zoo Authority.

### 1.3 About the Location

The Panther Safari has been proposed at Roha, Raigad District of Maharashtra, 122 kms from Mumbai and 135 kms from Pune on an area of 20.03 hectares. The land lies between the Kundalika River and Kalasgiri hills, adjoining a forest reserve and is an ideal habitat for rehabilitation of the Panthers. At present, there exists only one dedicated rescue centre for Panthers in the state of Maharashtra at Manikdoh, Tahsil Junnar, District Pune, which is already overburdened. Other rescued Panthers are housed in the Sanjay Gandhi National Zoo Park, Borivali and the rescue centre at Rajiv Gandhi Zoological Park, Pune. Looking at the number of Panthers rescued each year, the facilities for housing the Panthers in the state of Maharashtra are inadequate. There is an urgent need to create appropriate housing for the rescued Panthers.

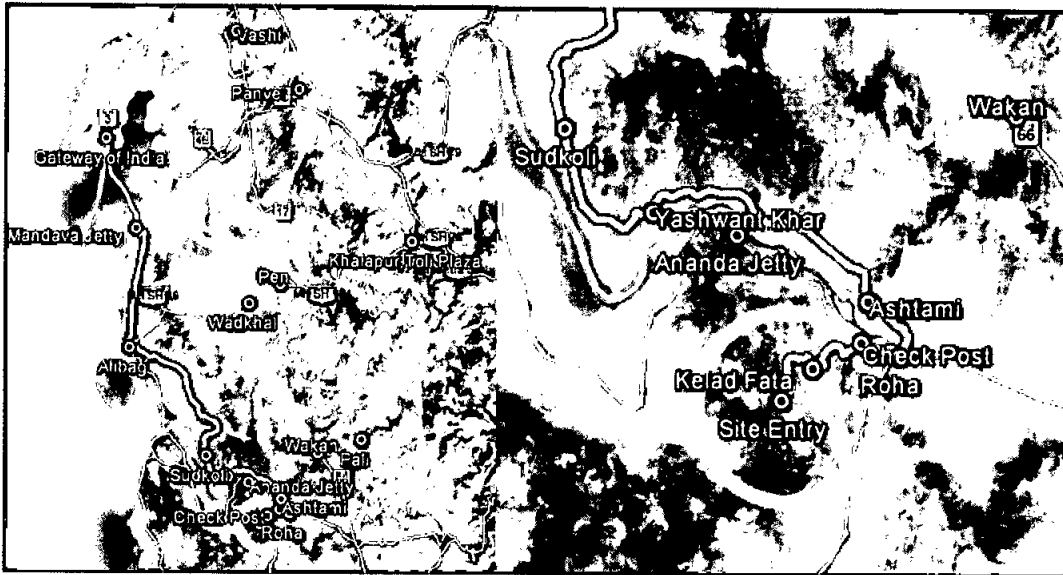


Figure 1: Location Map of India



Figure 2: Detailed Location Map of Roha

### 1.4 Objectives

- (i) Rescue and Rehabilitation of the Panthers in the State of Maharashtra

(ii) Conservation Education and Awareness

(iii) To provide the visitors an absorbing and rewarding experience

(iv) Research to understand Panther-man conflict issue and come out with strategy which may help the Forest Dept of Maharashtra to minimize the conflict cases

### 1.5 Topography

The site is blessed with good topographical assets along with abundance of flora and fauna which has been on the site for a long time. This undisturbed vegetation gives a good existence to this proposed site. The site slopes from south to north with a contour variation of around 30 meters. The gradual inclination of the ground helps the rain water to flow naturally on the site. The south west corner of the plot has some rock patches and the rest of the area is covered with soil which is good for vegetation growth. The soil here has a characteristic which ensures good drainage during rains.



Figure 3: Site Image

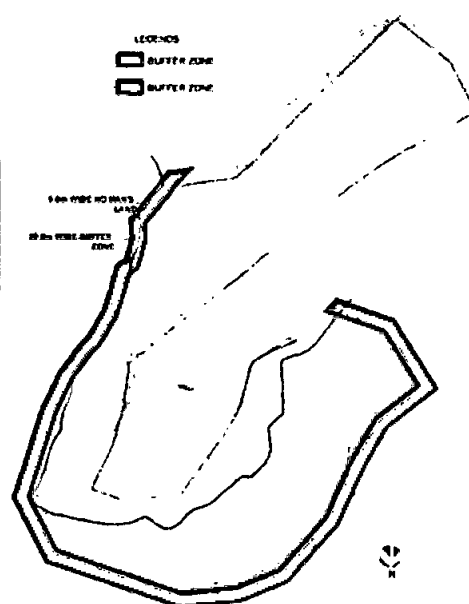


Figure 4: Contour map of Roha

### 1.6 Rock and Soil

The area is covered with undulating topography. Few rivulets originating from these hilly tracts are seen draining the area under consideration. Thin to thick veneer of black-cotton soil mantles the weathered basalt present at the site. There are no large rocks in the area except a few boulders.

### 1.7 Flora and Fauna

The proposed site and its adjoining area is rich in biodiversity as it has been preserved for many years. This area comprises of a number of floral species with different heights, canopies and ornamental features. Planting of large number of endemic trees has been proposed in the area. The site includes 83 species of plants which include large tree, herbs, shrubs, climbers and various species of grass.



Figure 5: Free ranging Flora and Fauna on site

### 1.8 Climate

The climate of this district is typical of that on the west coast of India, with plentiful and seasonable rainfall, oppressive weather in the hot months and high humidity throughout the year. The summer season from the month of March to May is succeeded by the south-west monsoons from June to September. The months of October to November form the post monsoon or the retreating monsoon season. The period from December to February is the onset of winter season. The period from March to May is one of increasing temperatures. May is the hottest month with mean daily maximum temperatures of 35 °C degree Celsius (89.1F) and the mean daily minimum temperature of 26.4 °C. The minimum and maximum temperature at site changes between 12 ° - 35 ° Celsius.

### 1.9 Rainfall

The Details of Average Rain Fall in the proposed area:-

2008 - 2887.0mm

2009 - 3378.6mm

2010 - 3921.2mm

2011 - 4338.2mm

2012 - 3812.6mm

2013 - 3716.8mm



Figure 6: Panther Safari Camp office at site Roha in rain.

### 1.10 Seasons

The seasons as the site can be divided into Three Parts:

1. Winter- November, December, January
2. Summer- February, March, April, May
3. Monsoon- June, July, August, September, October

### 1.11 Approach

The Panther Safari will have several alternatives for approach. Roha is well connected by train through Mumbai- Panvel- Roha which covers a distance of 122 km that will take three hours depending on the time of travel, traffic, and availability of trains.

Visitors can also reach Roha by Bus from Mumbai which takes approximately four hours. The bus from Pune takes about four and half hours depending on availability. The Panther safari can be reached from Roha by a private Auto to cover a distance of 5 km.

### 1.12 Demography of the surrounding area

There are five small hutments existing in the adjoining areas of the site. The approximate population of villages adjacent to the Panther Safari is as under.

Sr. No.	Surrounding Village	Population (Nos)	Distance From The Proposed Site (Km)
1	Pangloli	130-150	1.5
2	Keladwadi	180-200	1.5
3	Zapadi	80-100	3.0
4	Phansadi	60-80	3.5
5	Usar	200-250	4.0

Figure 7: Population spread in adjacent villages

### 1.13 Legal Status of the Land

The Yashomala Farming and Tourism Pvt. Ltd. has purchased 20.03 Hectares of land for creation of Panther Safari in the year 2008 from local farmers. This land is a free hold land deleted from the section 35 of Forest Conservation Act, 1980.

### 1.14 Pollution

The proposed site is enveloped by thick reserved forest on most sides. This helps the proposed location of the land to be away from any kind of water, soil and air pollution. The controls measures for the visitors will ensure this proposed safari harbours a good pollution free environment for the animals. The nearest industry to the site is at a distance of about 20 km and there is an elevation difference between the site and industry of about 100 meters. This gives the proposed site a great pollution free environment. The master site is more than 250 acres and the local hutment villages of the tribal's are around 1/5 to 2 km away from this fence. This helps the site to be protected from any kind of man made pollution that impacts the elements like water, air and soil. This foundation of a pollution free environment will surely help in providing a good home for this Panther safari.

As the present project is proposed to be established, information pertaining to appraisal of the present arrangements and constraints has not been provided. However, the same has been covered in Chapter 2 where details on the future action plan have been shared.

## CHAPTER II

### 2.1 The Design

With a keen sensitivity towards the behavioural characteristics of the Panthers, we have designed a well thought, safe enclosure barrier methodology based on the Panther enclosures at South Khairbari Panther Safari and Rehabilitation Centre in Village Satpukuria, Post South Khairbari, Dist. Jalpaiguri, West Bengal. However, the present design will be based on the modern version of the existing methodologies adopted and this barrier design between animals and visitors will be management friendly as well as visitor friendly. The visitor's journey to experience the wild encounter with the Panther shall start as soon as they are in the campus of the Safari. The proposed safari shall also have a nature interpretation that will help convey the message of conservation education and creation of awareness about the same. We intend to impart knowledge about the Panthers along with rich flora and fauna as the heritage of our country, state and district. After this brief interaction a team leader shall escort the group of visitors through the entrance lobby into the various zones of animal enclosure. In this zone, the visitors will be informed about the do's and don'ts on their excursion through the forest. After the visitor compliance procedures, the team leader will take the group in the 'experience way' which is exclusively designed to encompass the visitors in the experience of the wilderness.

### 2.2 Safari Administration Section

ADMINISTRATION BLOCK			
SR.NO	DETAILS	AREA (SQ.M)	FACILITIES
1	INFORMATION and NATURE INTERPRETATION CENTRE	84.00	WITH LCD PROJECTOR
2	PUBLIC TELEPHONE BOOTHS (2 NO)	3.18	
3	RESTAURANT	119.20	INFORMATION DISPLAYS IN RESTAURANT AREA.
4	FOUR NO. OF DRINKING WATER TAPS	2	
5	TICKET COUNTER	31.50	TICKET COUNTER PROVIDED IN RECEPTION AREA.
6	TOILETS	36.77	TOILETS FOR LADIES and GENTS

Figure 8: Safari Administration Section

### 2.3 Research

The Panther Safari shall offer scope for carrying out various research studies on animals. Colleges, research institutions, and conservational organizations shall be involved for conducting research within the Panther Safari.

### 2.4 Conservation Breeding

If required or directed by the Central Zoo Authority, the vast outlying area of the Safari Park may be utilized for setting up an off display animal conservation breeding centre for Panthers or any other endangered species. If necessitated, this would be initiated under consultation with the Central Zoo Authority to progress in the best way possible. The size of the enclosure would be large enough to provide enrichment of support to sustain breeding of animals without any disturbance.

Researchers and enclosure management staff should have access to this scheduled off-exhibit breeding centre. No stress should be caused to the animals and they should be allowed to live as in nature.

## 2.5 Education and Awareness

The Panther Safari shall conduct innovative conservation education and awareness programs as zoos have become conservation centres providing facilities for learning about the nature and its complex processes. The Education and Research wing shall be developed to create special customized programs for students and public for nature education and interpretations. The following methods shall be followed:-

### a) Training of Trainers- Teachers Education Program

Regular teachers training program shall be conducted in the Panther Safari on a special education module developed by the Education and Research wing. The course will be designed to give them a general outlook about the Philosophy and theme of conservation and the Ex-situ and In-situ conservation programs. Visits to the various animal sections in the zoo will facilitate learning of themes and concepts of conservation. Teachers will be provided with course materials and handouts for study and reference purposes.

### b) Safari School

The Safari School shall be a unique concept implemented to bring large number of school and college students to the Panther Safari and give them an opportunity to learn about wild life and its value in a conducive environment.

### c) Safari Club

The Panther Safari shall have a Safari club with the objective of encouraging voluntary service for the improvement and development of rescue and rehabilitation program. The volunteers shall be assigned the work of helping animal keepers, Safari education dissemination to visitors, engage Safari sanitation activities and documentation.

The Safari News Letter shall be produced which shall be circulated to all concerned zoos for sharing information and experience in the management of the zoos.

### d) Safari Website

The Panther Safari shall open up an interactive and exclusive website which shall give information on all the salient features of the Safari Park.

### e) Safari Guide

The Safari guide shall prepare an important document providing information about the Safari to the visitors. The "Safari guide" shall have a map for guiding visitors to the animal enclosure, through a network of trails and roads. Information on zoo ethics and animals shall be contained in the guide.

## 2.6 Theme of Display

The Panther Safari will display Panther (*Panthera pardus*) which is a member of the "Felidae family" and the smallest of the four "big cats" in the genus Panther; the other three are the tiger, lion and jaguar. The Panther's range of habituation has decreased radically over time due to hunting and loss of favourable terrain, and the Panther now chiefly occurs in dry deciduas and open scrub land forests. Due to the loss of range and continual declines in population, the cat has been downgraded to "Near Threatened" species as far the International Union for Conservation of Nature and Natural Resources (IUCN); its numbers are greater than that of the other Panther species, all of which face more acute conservation concerns. However also listed in the Schedule I of the Wildlife (Protection) Act, 1972.

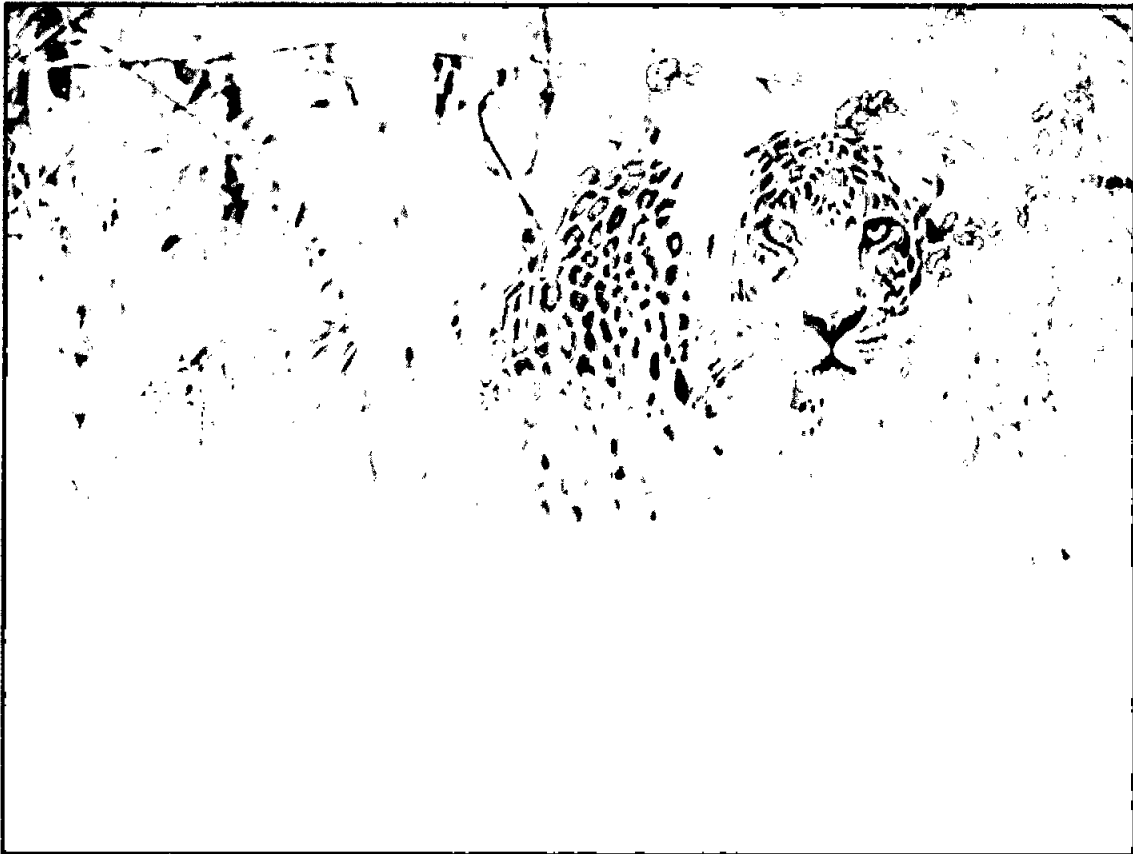


Figure 9: Panther

The Panthers will be housed in large open naturalistic habitat in providing chain link mesh with inclined inward steel barrier. The visitors will be taken inside Safari Area by a covered four wheeler specially designed for the purpose through a double gate system for the safety of animals and as well as visitors.

The Panther has relatively short legs and a long body with a large skull. Physically, it most closely resembles the jaguar, although it is usually smaller and of slighter build. Its fur is marked with rosettes which lack internal spots, unlike those of the jaguar. Panthers that are melanistic, either completely black or very dark in coloration, are one of the big cats known colloquially as black Panthers.

The species' success in the wild owes in part to its opportunistic hunting behaviour, its adaptability to a variety of habitats and its ability to move at up to approximately 60 km (37 miles) an hour. The Panther consumes virtually any animal it can hunt down and catch. Its ecological role and status resembles that of the similarly-sized cougar in the America.

## CHAPTER III

### 3.1 Future Objectives

1. To support the Panther rescue and rehabilitation efforts of the Forest Department of Maharashtra.
2. To become a centre of knowledge and disseminate information about conservation, wildlife and environment.
3. To provide the visitors an absorbing and rewarding experience.
4. To create an interpretation centre for increasing awareness about biodiversity conservation.
5. Sensitizing and educating visitors about endangered species and the importance of wildlife in maintaining an ecological balance.
6. Enhance the role of zoos in conservation of wildlife and research.
7. The mission of Panther Safari will be to encourage people to develop a caring attitude towards flora and fauna; to serve as a dynamic nature conservation centre by promoting conservation of the Panther and other endangered species in the area.

### 3.2 Vision

A Zoological Park where Panthers received or rescued who are not fit for the wild but are fit for display will be housed in natural surroundings where people can visit and be enlightened about biodiversity conservation and issues of man animal conflict.

### 3.3 Mission Statement

"The mission of Panther Safari will be to encourage people to develop a caring attitude towards flora and fauna; to serve as a dynamic nature conservation centre by promoting conservation of the Panther rescued, create eco awareness and education on other endangered species in the area and to offer excellent public service."

### 3.4 Strategy

A total of 20 hectares land has been earmarked for this development. This will have Natural Open Enclosures for the housing the Panthers rescued from the Forest Department of Maharashtra as rescued, injured, orphaned due to man animal conflict and creation of rescue centre for wild animals.

Panther safari at Roha will be a centre of Excellence for Wildlife conserving and wildlife education.

## CHAPTER IV

### 4.1 Future Action Plan

#### 4.1.1 Animal Collection Plan

The plan proposes to house and exhibit 15 number of common Panthers (*Panthera pardus*) in the two phases. During the first phase Rescue Centre shall be established and in the second phase, the Safari will be established.

Sr. No	Species to be Exhibited	Existing Stock				To be Acquired				Source of Acquisition
		M	F	U	T	M	F	U	T	
1	Panther	0	0	0	0	5	10	-	15	To be acquired from surplus population of Panthers existing at Panther Rescue Center at Manikdoh, Pune and Sanjay Gandhi National Park Zoo, Borivali, Mumbai, Maharashtra or to receive as a rescued from the MFG.

Figure 10: Phase Distribution

M- Male , F-Female, U -Unknown , T -Total.

#### 4.1.2. Layout Plan of the Panther Safari

The location (18-25-17.25 North, 73-04-17.83 East, Altitude 144 msl.) selected for establishing safari is surrounded on east, west and south by government reserved forest. Though the land under safari is privately owned land, it was never cultivated and hence has retained same characteristics that of a surrounding forest in terms of earth, flora and fauna. The land gradually slopes towards east and has a altitude difference of 46 meters, lowest being 125 msl. and highest being 171 msl.

The Phase I layout is basically divided into three zones. The first zone consists of ancillary structures like entrance and reception block, interpretation centre, veterinary facility and vehicular parking etc. The second zone consists of rescue centre where the panthers can be held and treated in comfortable large cages. The third zone consists of the safari area covered by the enclosure, where panthers can move freely and may be sighted by the visitors in a responsible way.

The Master Layout plan of the Panther Safari at Roha is laid in such a way that the visitors will go in a covered vehicle to view the panthers in free ranging area. The vehicle to the Panther safari will have an entry to the double door gate for the safety of animals and visitors. The visitor circulation loop distance shall be off 1.28 kilometres. The feeding and retiring cells are placed in such a way to cater the need from the designated service road placed independently.

The habitat provided to the Panther cell includes three number of water bodies artificially created of which the provision of portable water shall be made available 24 x 7 for the drinking and bathing purposes of the animals. The Panther Safari Management shall make available water, electricity and sewage requirement as per the proposed plan in the subsequent section.

MASTER (LAYOUT) PLAN OF PANTHER SAFARI AT ROHA, MAHARASHTRA (SCALE 1:1000)

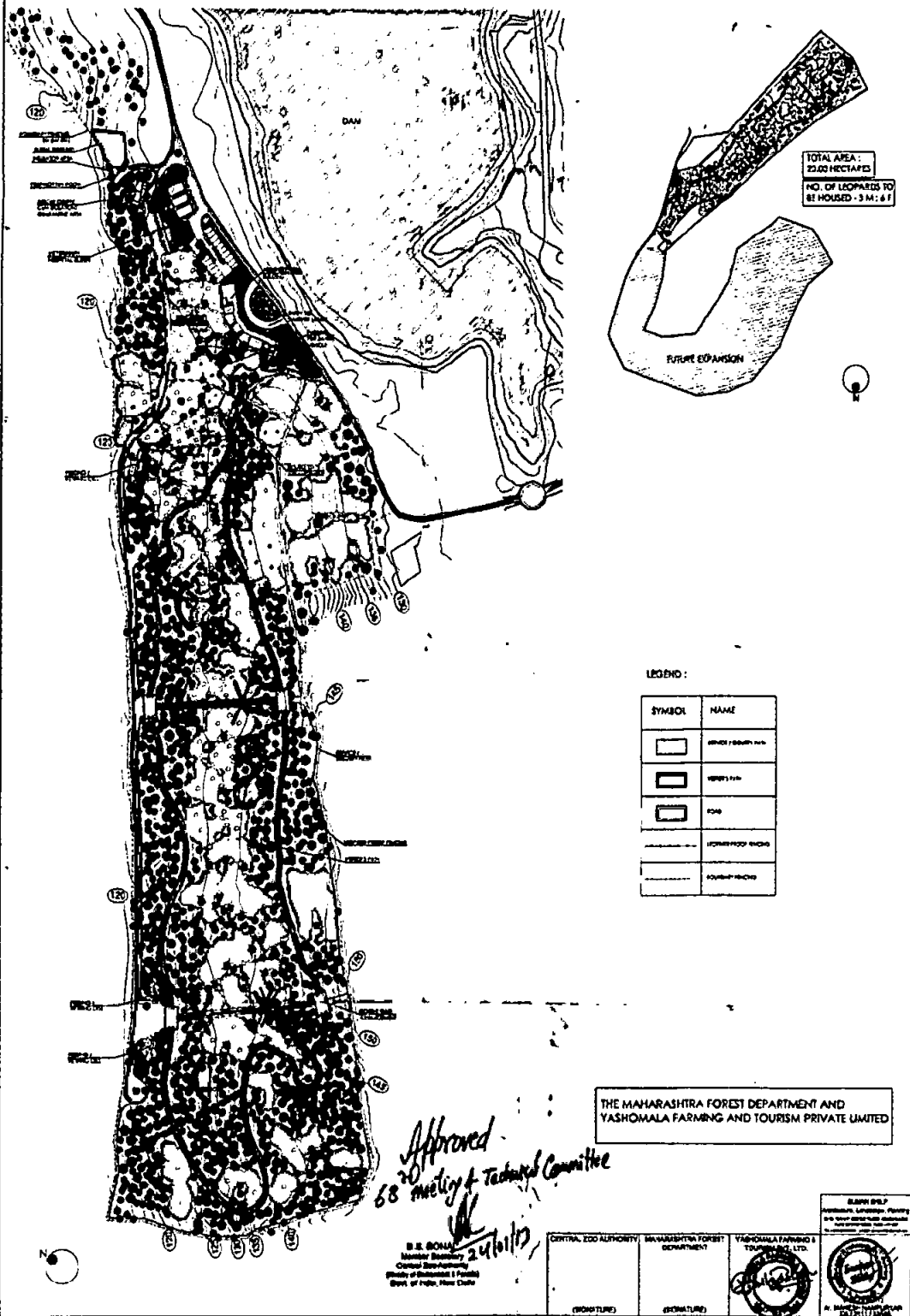


Figure 11: CZA approved layout

#### 4.1.3. Water Source & Requirement Plan

As a source of water for the project, the proponent has harvested the rainwater. There are six reservoirs built in the project area. Cumulative capacity of the storage is more than 200 crore litres. This capacity is more than 9 times of the water requirement of the whole project. The company is providing water for domestic and agricultural needs of the two adjacent hamlets, without any cost. In short, there will be ample water supply without any cost to the safari.

#	Reservoir No	Water Spread Area Ha.	Quantity Stored (Litres)
1	1	4.3416	351930950
2	2A	2.4281	182485400
3	2B	0.0899	13487900
4	3	7.1693	1257909800
5	4A	0.0607	9478650
6	4B	1.4846	184889500
7	5	0.2095	18732550
8	6	0.3901	16376300
	Existing	16.2567	2035291050

Reservoir No. 3 is very near to proposed safari location. Water will be lifted from this reservoir, treated in the small water treatment plant and stored in underground storage tank, located near parking area as indicated on layout. The lab report certifying it to be potable water will be duly submitted to CZA before commissioning.

Water requirement per day works out to...

Utilisation for the purpose	Quantity (Litres)
150lit/person /day so for total 160person population	24,000
200lit/panther/day for 9 no of panthers	01,800
Water Ponds for Panthers 3 nos.	14,000
Washing & cleaning of night cells	14,000
Kitchen+ veterinary+ cleaning requirement	10,000
Landscaping & fogger zones	29,000
Fire Fighting	20,000
Total	1,12,800
Storage Requirement (Total*1.5)	1,69,200 Say 1,70,000 Litres/day

We have planned to store 1,30,000 litres in the Under Ground tank, 20,000 litres in separate Fire Tank & 20,000 litres will be stored in overhead tank at Entrance-Administration block as indicated on plan.

#### 4.1.4. Fire & Safety Requirement Plan

Fire & Safety being most important issues, a totally independent arrangement is made for the uninterrupted supply of water in case of fire. A standby storage of 1,30,000 litres of water from a separate Under Ground tank will be pumped into the system by the pumps of requisite capacity which will be fitted in the plant room.

150 mm diameter hydrant ring main will be laid all around buildings & where ever necessary along fencing area. Single head landing valve with hose& cabinet boxes will be installed at strategic location.

#### 4.1.5 Sewage treatment Plant

As daily water consumption is 1,70,000 litres, the waste water generation will be @ 33% ie. 56,000 litres. So, we have planned eco-friendly Sewage Treatment Plant on the eastern side of safari boundary beyond the reserved forest area but within the project owned land.

#### 4.1.6 Electrical Requirement Plan

As total built up area is approx. 9500 sqft, the total lighting load is as follows

1. 95000watt---Lighting load ( 10watt/sqft)
2. 10000 watt---Air-condition load (2200 watt/split unit1.5ton)
3. 600watt ---13mtr pole light 20no (30watt LED/pole)
4. 500watt ----- Equipment, pump & other miscellaneous load

Total electrical load 106100 watt i.e.105 kw. Small electrical room is proposed near two-wheeler parking area.

125kva DG set will be installed at electrical room for back up purpose.

#### 4.1.7. Visitors Facilities

##### a. Visitor and Services Circulation

The plan proposes the provision of a cafeteria in the administration block outside the safari zone near the entrance. The need for appropriate access to physically challenged visitors shall also be taken into consideration and will be thoughtfully addressed while planning this facility. We have ensured a dedicated path way for the physically challenged people. We shall also provide descriptive boards/panels and audio interactive show for visually impaired visitors.

The physically challenged visitors will also be provided wheel chair facility by the management as well as senior citizens will be given battery operated wheel chairs to move independently in the safari. The management will also ensure that the team leader will be well trained to serve such visitors. In terms of ensuring a visual vigilance over entire proposed development, we intend to have close circuit camera setups in entire zone at appropriate locations. This will be monitored by the safari in-charge from the administrative office. For visiting the Panther, presently is has been proposed to visit by walk, however in future is shall be explored to visit the safari by using battery operated Vehicles. These vehicles shall be specially designed to ensure safety of the visitors. Thus, we propose to ensure a fantastic experience for all types of visitors.

##### b. Zonal Circulation

On their way visitors shall pass through all the zones taking a time to experience the flora and fauna as well as they will interact with various signage and write- ups to give them better understanding of the wilderness surrounding them.



Figure 12: Zonal Circulation

The vehicle for the safari will be designed in such a way to ensure the well being of the animals and the visitors. The vehicle used for the purpose shall be free of noise and air pollution. The safari will also have a provision to have a standby vehicle in case of any emergency.

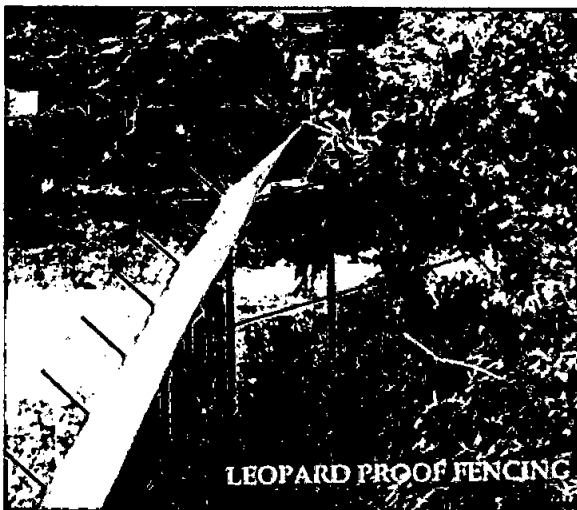


Figure 13: Fencing of zones

The surrounding of the Panther Safari shall be fenced at an appropriate height as per the directives laid by the Central Zoo Authority with regard to the barriers. The project proposes to provide Photo Volatile fences as a barrier which will ensure safety for the animals and human beings in the surrounding areas. It will also help the other animals from entering into restricted zones proposed for certain animals. A cut of trench

with thorny plantation shall also be created as a buffer in addition to the

vertical fence to function as additional barrier. It is also proposed that vulnerable branches that could provide jumping access to cats over the fences shall be trimmed to increase safety. We propose to provide the GI sheet mid-way on the fence which will ensure the cats not to clutch on to the fence and climb further.

The experience way will be a paved area which will ensure a dust and noise free zone so that the animals are not disturbed. In the zones earmarked, we propose to create ponds and facilitate eating for animals so that they are close to the walkways but at a safe distance as well. This will make it easier for the visitors to spot these

rare wild cats in their primitive environment. The zones will also contain cave like structures artificially made to give these animals a great hiding place similar to their natural environment. The crossover from one area of the zone to the other will be through a walkway over natural bridges made out of wooden logs which will not only be environment friendly but shall also give these animals a sense of wilderness.

#### c. Other Amenities for Visitors

The Panther Safari endeavours to provide all the essential basic facilities to the visitors to make their visit an enriching experience. The following facilities have been provided to the visitors:

1. Rest areas having sheds, sitting benches, green lawns and Gardens.
2. Supply of cool drinking water at many points.
3. Catering facility.
4. Sitting benches under shady trees.
5. Walk path and hedges in front of enclosures.
6. Battery powered vehicles to go around the zoo and to the safari area.
7. Natural landscape with lawns, and gardens.
8. PCO and First aid facility.
9. Well maintained toilets at several places.
10. Interpretation sheds to educate people.
11. Guides and zoo interpretation by zoo club members.
12. Zoo Wild school for children.
13. Conservation Education program for school children.
14. Easy approach by buses and trains from any part of city and suburbs.
15. Dustbins at several places as well as along all access areas.

#### d. Visitor Protection

To ensure absolute protection to the visitors live hedge barriers and standoff barrier shall be provided in front of all animal enclosures. In most of the moat enclosures, the moat wall itself serves as a barrier between the animal and the visitors, in addition to the live hedges. This barrier besides being a protection measure also prevents the visitors from coming close to the animals.

#### e. Feeding and Retiring Cells

The feeding and retiring cells as per the specifications provided under the Recognition

of Zoo Rules, 1992 (amended in 2013) will be provided to all animals. These enclosures are spaciouly planned to provide considerable room for the animals during their stay. A well designed space is planned between two cells on either side which will be called as the Treatment Cell with a squeeze cage. The veterinarians would put this into use during their treatments of any sick animals and in case of emergencies. The care takers will have appropriate space to move inside night cells which will help them to keep an eye on the animals. These cells shall be placed in such a way that access to proper cleaning facilities including the gutter to drain

water used for cleaning cells will be easy. The retrieving enclosures are planned with proper exhaust and ventilation systems to let the fresh air flow through the night cells. A septic tank and a soak pit are planned for every cell to ensure proper sewage treatment. There will be an incinerator for disposal of solid waste (left over feed, bones, faecal matter) at the site. The other waste (dry leave, etc) shall be treated at the site itself by the horticulture department and compost made out of it will be used.

The north-west side of the plot will include a road which connects all the night cells. This road will be a motorable road and could be used for an emergency vehicular exit when the animals need to be shifted to the veterinary hospital attached with isolation and quarantine ward. The proposed hospital will be well equipped with latest accessories required to treat animals.

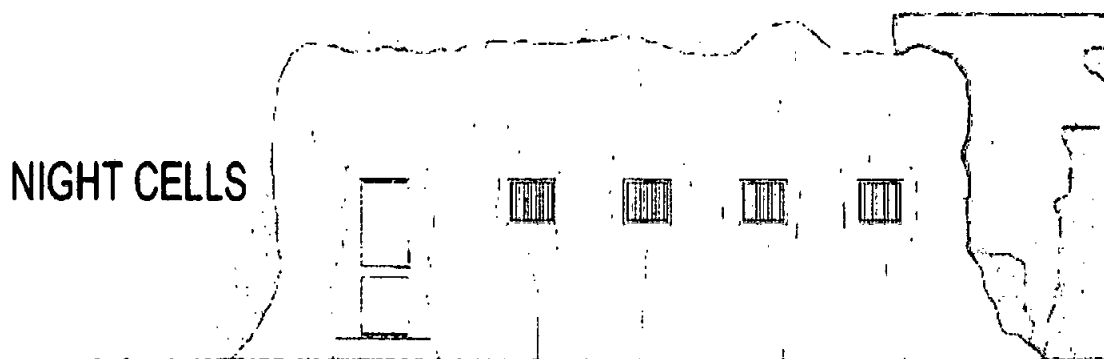


Figure 14: Proposed Night cells for Panthers at Roha

The hospital will also provide facilities for training people and will help in enriching their knowledge towards animal handling in terms of their encounters with such wild animals. The hospital will have pre-treatment and post-treatment rooms with a well equipped operating theatre. A lab for blood and other clinic testing is also proposed in the hospital. A well derived kitchen cum food store is also planned with a deep freezing facility in this block. The doctor in charge of this facility will have access to a doctor's room to have his own place in the premises.

These proposed facilities will help in developing a great habitat for this wild cat and will help them to lead a great life in nature. A biologist, designated number of keepers and security personnel shall be provided with a residential facility within the vicinity of the safari with proper safety and security barriers.

#### 4.2 The Details of the Panther Safari

The following are the standards and norms as stated under Recognition of Zoo Rules 1992 (amended in 2013) by Central Zoo Authority which will be followed while designing Rescue Centre and Panther Safari.

#	Description	Minimum Requirement				Provision Made				Remark
		Length	Width	Height	Area	Length	Width	Height	Area	
1	Feeding / Retiring Cubicle	2.00m	1.50m	2.00m	3.0 sqm	2.50m	2.00m	3.00m	5.0 sqm	More spacious area and treatment cell is provided.
2	Perimeter Fencing	-	-	4.00m	-	-	-	4.00m	-	Trees are trimmed till 2.4 m from the fence.
3	Experience Way For Visitors	-	-	-	-	-	3.50m	-	-	-
#	Description	Minimum size of outdoor enclosure area required (sqm)			Area proposed for housing each Panther (sqm)					
4	Outdoor enclosure for Panthers at Rescue Centre	500 sqm (for 1 Panther)			800 sqm (for 1 no. Panther)					
5	Safari for Panthers	20ha			20ha					
#	Description	Provision made		Area	Remark					
6	Veterinary hospital	1. Operation theatre/surgical room.		17.50 sqm	With x-ray facility.					
		2. Doctors cabin.		10.90 sqm						
		3. Dispensary/pathological lab/tranquilising equipment/ drugs.		14.00 sqm	Provision for tranquilising equipment and drugs is given.					
		4. Quarantine ward/nursery for hand rearing animal babies.		10.50 sqm						
		5. Toilet.		10.50 sqm						
		6. Kitchen cum food store		15.75 sqm	With deep freezer, portable water facility and food distribution van.					

## CHAPTER V

### 5.1 Personnel Planning

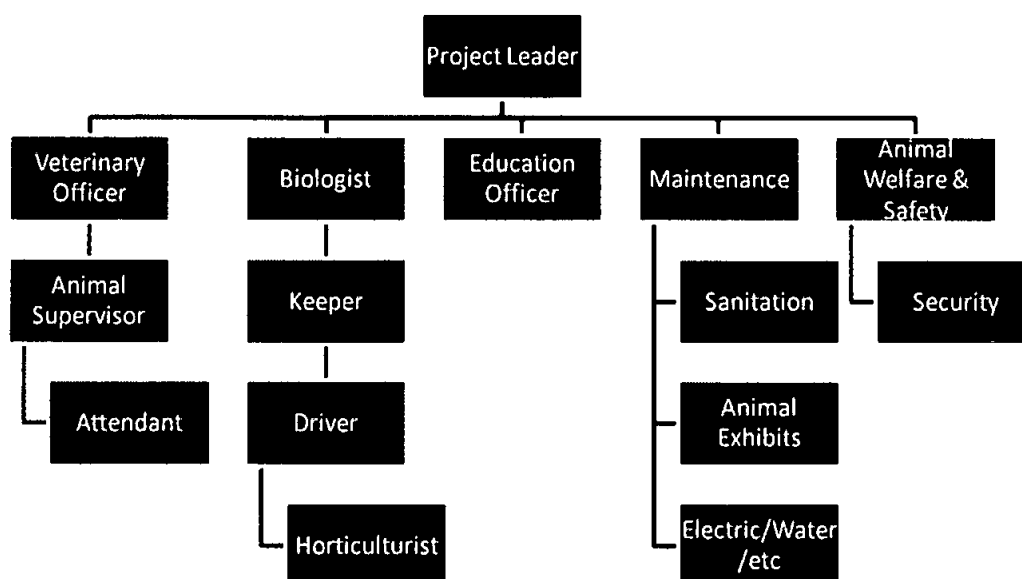


Figure 15: Personnel Planning

The proposed Safari will have a Full time Project Leader cum Curator along with a Full time veterinary officer, Biologist and Education officer. The above figure depicts the arrangement for the proposed plan.

The Proposed Qualification and duties of each member is enlisted below:

1. Project Leader cum Curator
  - a. Proposed Qualifications:  
Post Graduate in Zoology/Wildlife and experience of working with a recognized zoo/rescue centre
  - b. Duties:
    - i. Upkeep and maintenance of animal collection and animal housing, including timely cleaning and disinfection of animals' enclosure,
    - ii. timely feeding of animals in the prescribed manner
    - iii. keeping a close watch on the general health conditions of the animals and taking steps for getting sick animals treated on priority basis including crating
    - iv. shifting and transportation of animals within the Panther Safari and
    - v. Appropriate Administration and Financial Power for day to day maintenance of the Panther Safari
2. Education Officer
  - a. Proposed Qualifications:  
Graduate with appropriate/relevant experience in an educational institute, conversant with English, Hindi and Marathi languages
  - b. Duties:
    - i. Preparation of brochures, booklets, CDs and other interpretative material on behaviour biology and ecology of various species housed in the Safari for their further dissemination
    - ii. Designing and upgrading the signage at various enclosures and developing appropriately designed direction boards and appropriate warning signs for regulating movement of visitors

- iii. Providing orientation and guidance to the visitors for having educative and rewarding experience at the zoo
  - iv. Making arrangements for conducted visits of organized groups
  - v. Assisting in addressing of the difficulties and grievances of visitors.
  - vi. Training the zoo personnel to deal with the visitors in courteous and polite manner without compromising with zoo ethics
3. Biologist
- a. Proposed Qualifications:  
Bachelor in Science, Biology or Environment Sciences with appropriate/relevant experience
  - b. Duties:
    - i. Making observations on the behaviour and biology of animals,
    - ii. Assessing the compatibility of animals in groups/herds and maintaining meticulous record of the same
    - iii. Ensuring their upkeep and welfare including provision of special diet for pregnant females, nursing mothers, and new born/new arrivals, infirm and sick animals
    - iv. Genetic management of animal groups/herds particularly the endangered species including putting identification marks on the newly acquired and new born animals and facilitating timely exchange of animals with other zoos
    - v. Enrichment of animal enclosures
    - vi. Recommending regulation of movement of visitors in such a manner that its impact on animals will be minimum
    - vii. Maintenance of animal history cards and studbooks as stipulated in Recognition of Zoo Rules
    - viii. Gathering up to date information on behavioural biology and reproductive aspects of zoo animals and use the same for refinement of protocols for animals' housing, upkeep and conservation breeding program
4. Veterinary Officer
- a. Proposed Qualifications:  
B.V. Sc. and appropriate/relevant experience of working with a recognized zoo/rescue centre
  - b. Duties:
    - i. Frequent visits to animal enclosures and assessing general health condition of animals
    - ii. Assessment of the adequacy of the feed being supplied to the animals
    - iii. Keeping a regular check on the quality of feed and water being supplied to the animals and timely screening of animals for parasitic loads. Preparation of disinfection schedules, prophylactic treatment schedules and ensuring the implementation of the same.
    - iv. Taking steps for timely restraining and treatment of sick animals, maintenance of record of the treatment provided to animals in prescribed formats
    - v. Conducting post mortem of animals that die in the zoo for arriving at logical conclusions regarding the reasons of death and device strategies for keeping the mortality of zoo animals at minimum level
    - vi. He should also be responsible for supervising the crating, shifting and transportation of Safari animals as well animals received as orphaned, rescued and injured other than Panther also.

5. Keeper
  - a. Proposed Qualifications:  
Appropriate/relevant experience of working in a similar capacity
  - b. Duties:  
The Keepers/ In-charges of all sections or beats under the Animal Section of a Zoo should maintain keeper's diary in the format as giving animal/specie-wise details of all the important events and activities pertaining to his section/ beat
6. Animal Supervisor
  - a. Proposed Qualifications:  
Appropriate/relevant experience of working in a similar capacity
  - b. Duties:
    - i. Animal Supervisor, In-charge of the Animal Section of Panther Safari shall compile the important aspects of the reports submitted by the Keepers of the different enclosures in the format as given by the Project Leader and submit the same daily within two hours of opening of the Safari to the Project Leader through the Veterinary Officer
    - ii. The In-charge, Animal Section; Veterinary Officer and Project Leader of the Safari shall record their observations/ comments in the daily report and take the required action accordingly. Copy of the daily report will go back to the In-charge, Animal Section the same day after the biologist has made necessary entries into the Animal History Cards of the animals/ species reported upon
7. Attendant
  - a. Proposed Qualifications:  
Appropriate/relevant experience working within a lab in similar capacity
  - b. Duties:  
To assist the Veterinary Officer and carry out all routine pathological tests of the animal's samples as mandatory under the Rules
8. Driver
  - a. Proposed Qualifications:  
Appropriate/relevant experience working in a similar capacity
  - b. Duties  
To attend the duties as per the directives of the Project Leader
9. Gardner
  - a. Proposed Qualifications:  
Appropriate/relevant experience working in a nursery in similar capacity
  - b. Duties:  
To plan and maintain all horticultural and landscape activities in and around Panther Safari and plantation of appropriate species of plants inside the animal enclosures and assist the biologists in enriching the habitats of animals
10. Security
  - a. Proposed Qualifications:  
Appropriate/relevant experience working in a security role in similar capacity
  - b. Duties:  
To secure and protect property, personnel and animals in the denoted zones. Will be required to stand for prolonged periods of time, provide superior customer service, and complete perimeter checks and verticals. Position may require one to work outside in any type of weather, to remain vigilant and on post at all times, to report for every shift on time and in proper uniform. Will

be responsible to protect and nurture the habitats of animals and will execute, monitor and control access while adhering to protocols at all times.

#### 11. Maintenance

##### a. Proposed Qualifications:

Appropriate/relevant experience working in a maintenance role in similar capacity

##### b. Duties:

To proactively keep the demarcated premises in pristine condition by cleaning and restocking restrooms, emptying trash containers and replacing liners, sweeping and mopping floors and clearing it of any liquid or debris, dusting fixtures, shelves and product, replacing light bulbs, cleaning windows and mirrored surfaces, cleaning office areas and other jobs to be determined by management needs.

To promptly respond to all maintenance calls; attend to spills, breaks or other accidents and provide a safe environment for both customers and co-workers and demonstrate a working knowledge of animal, human and food, identify hazardous situations and communicate safety violations to the appropriate management immediately

## CHAPTER VI

### 6.1 Disaster Management

There are many threatening conditions that may require a rapid and organized response to minimize injury to people and animals or damage to facilities. Severe climatic disasters such as flooding, earthquakes, drought, severe cold and fires can not only severely damage the Panther Safari, but also may do serious damage to the local community. Resources and equipment to clean up after catastrophic incidences will be directed to the community as a whole, and the Zoo will be a low priority unless its presence is a threat to the community. Portable generators, chain saws, gasoline, fresh water and an adequate supply of food stuffs will be maintained by the Zoo and safari parks at all times. Staff may be needed round the clock to deal with problems occurring during severe weathers. Normal access to the zoo/safari park may be limited or cut off due to flooding, downed trees or damaged roadways.

#### Examples of Problems:

##### Identify the dangers arising out of the facility's location:

- In an area for cyclones
- In a flood plain for nearby lakes, creeks, rivers
- Near national/ state highways
- In an area prone to fire
- Near an earthquake fault
- During heavy to very heavy rains

##### Identify the dangers of the facility's structure:

- Can the buildings, enclosures, sheds and public utility areas withstand cyclonic winds?
- Do the buildings have aluminium glass doors and big windows?
- Are the roofs secure from water loading?
- Are there exposed and old electrical cables that could start a fire?
- Are there sufficient fire extinguishers and are they convenient easy to locate or do you have a separate water body that could supply water to extinguish a fire?
- Is smoking banned in the facility?
- Is dry grass, bushes, branches periodically cleared that could be a potential fire hazard?

#### Insurance:

Is the facility, animals, keepers and visitors under insurance coverage?

Prepare a complete inventory of the property, with photographs. This should be kept in a safe place with a duplicate copy off the premises.

### **Priorities:**

- Identify the most expensive and valuable animals and create a plan to preserve and protect them.
- Identify necessary items and equipment to get the facility running again.
- Make sure all vehicles are moved to a safe location, away from falling trees, debris or flood waters.
- Move inside equipment to the centre of the room and wrap in tarpaulin or plastic sheets with adhesive tape.
- The local fire department should conduct a drill so that they are familiar with the layout of the zoo.
- Install a fire alarm system.
- Install fire extinguishers throughout the facility and train the employees to use them.
- In case of a fire, ensure that the sprinkler systems operates properly.
- **On-going planning:**
- Provide regular training for all employees in First Aid and emergency preparation particularly in the case of earthquake, cyclones and fires.
- Very often enclosure/pits that are built beneath the ground level do get flooded. At such times ensure that a mobile pump set is handy to pump the water. If pumping out the water is not possible, shift the animals to a dry location.

### **Ensure that following supplies are needed at all times:**

- Flashlights with batteries
- Transistor Radio with batteries
- Fire Extinguisher
- Tarps and/or plastic
- Rope or cord
- Adhesive Tape
- First Aid Kits for human and animals
- Food and water to last for 1 -2 days
- Collapsible cages or crates
- Wireless set
- Mobile generator
- 10 vials of ASV

### **Responding to Fire**

Fire in an animal facility requires quick thinking and discretionary judgment on the part of the employees discovering the problem. The fire department should be called immediately and directed to the zoo entrance nearest to the fire that allows the safe passage of its vehicle. The electrician should also notify appropriate zoo personnel to assist at the scene. The public should be evacuated from the area, if the fire is within an animal facility, attempts should be made to remove the animals threatened by the fire. If possible, employees should attempt to extinguish the fire with a fire extinguisher. Circuit breakers to affected area should be turned off.



Figure 16: Fire Extinguisher

## **Responding to a Bomb-Threats**

- We propose for all our phones to have a caller ID system and the facility for automatic recording of calls. Probability of being caught, is the biggest deterrent for any prankster. Letting employees/workers/students know that they have state-of-art machines fitted at their central phone console will help.
- Treat all threat calls as important. Just because statistics suggest that most of the bomb threats are hoax, it does not give us any room for complacency.
- Instruct all personnel, especially those at the telephone switchboard, in what to do if a bomb threat is received. A calm response to the bomb threat caller could result in obtaining additional information. This is especially true if the caller is a genuine one and wishes to avoid injuries or deaths.
- If told that the building is occupied or cannot be evacuated in time, the caller may be willing to give more specific information on the bomb's location, components, or method of initiation.
- The bomb threat caller is the best source of information about the bomb when a bomb threat is called in.
- Keep the caller on the line as long as possible. Ask him/her to repeat the message. Record every word spoken by the person.
- If the caller does not indicate the location of the bomb or the time of possible detonation, ask him/her for this information.
- Inform the caller that the building is occupied and the detonation of a bomb could result in death or serious injury to many innocent people.
- Pay particular attention to background noises, such as motors running, music playing, and any other noise which may give a clue as to the location of the caller.
- Listen closely to the voice (male, female), voice quality (calm, excited), accents, and speech impediments. Immediately after the caller hangs up, report the threat to the person designated by management to receive such information.
- Report the information immediately to the police. Never think that you will be called an alarmist. Remember every call is true, unless otherwise proven. Remain available. Police will want to interview you.
- When a written threat is received, save all materials, including any envelope or container. Once the message is recognized as a bomb threat, further unnecessary handling should be avoided.
- Every possible effort must be made to retain evidence such as fingerprints, handwriting or typewriting, paper, and postal marks. These will prove essential in tracing the threat and identifying the writer.

## **Civil Disturbances**

During Civil Disturbances, it is very important that arrangements may be made to send the Safari visitors and the staff to safer areas. As the Safari Park shall be visited largely by women and children, evacuating them to safe areas becomes more imminent as panic may result in further injuries if people attempt to evacuate in a disorganized manner.

**Equipment will be acquired for dealing with civil disturbances:**

<b>Items</b>	<b>Essentially needed</b>	<b>Needed</b>
Rubber boots	✓	
Alarm systems	✓	
Public address system	✓	
Radio communications (walkie talkie)	✓	
Protective gloves	✓	
Helmet	✓	
Measuring tape	✓	
Shovels	✓	
Pick axe	✓	
Tranquilizing gun with drugs	✓	
Welding machine with sufficient welding rods	✓	
Ropes and nets	✓	
Cages	✓	
Construction and repair materials like Cement, iron rods, sand etc	✓	
Gas cutters		✓
Earth moving equipment		✓
Fire proof dress		✓
Goggles	✓	

**For warning people about the emergencies**

To address the visiting public during emergencies, Panther Safari shall provide an alarm system at the entrance; public address system and enough walkie-talkies for effective communication.

**Local Response Capabilities**

The Panther Safari shall have the contact numbers of the nearest police station, fire and rescue service station and the nearest Government hospital to deal with any emergencies.

**Floods**

Though the pressure are does not fall in the flood proposed Zone ,the Panther Safari will have contingency plan for dealing with exigency associated with flooding. The contingency plan will envisage the cleaning and sanitizing the food items to eliminate the pathogens. Furthermore, the food items will be stored above ground and the storage will have sufficient ventilation and sunlight. Similarly preventive measures will be taken to cope up with large scale contamination of the drinking water supply by identifying alternative sources of water and mobilizing water tankers.

## CHAPTER VII

### 7.1 Contingency Plan

The Panther Safari will follow the following Contingency Plan:

#### 7.1.1 Animal Safety

1. Animals rescued from the wild:
  - Rescues calls are received from forest department, local government bodies, locals, police, NGOs
  - Obtain the permission from the state forest department to rescue the animal
  - Identification of the animal
  - Planning the rescue operation depending upon the animal
    - Drugs for tranquilizing and tranquilizing equipments.
    - Equipment for capture like snares, jap sticks, ropes, nets, net guns, gunny bags
    - Transport vehicle
    - Personnel - veterinarian, keeper and Animal supervisor
  - Police and security for crowd and media management
  - If the animal is tranquilized, insert microchip
  - Animal ambulance to transport the captured animal
  - Transfer the animal to the veterinary care facility
  - Identification of the nature of injury if any. Medical treatment if required
  - If the animal is healthy, to be released immediately with a release order from the forest department
2. The YFTPL shall comply with the following plan while executing the establishment of Rescue Centre and Safari.
  - The perimeter boundary, including access points, shall be designed, constructed and maintained to discourage unauthorized entry.
  - There shall be systems to minimize risk of theft, malicious damage or release of animals by intruders entering the zoo after visiting hours.
  - Every effort must be made to recover the animal dead or alive.
  - The Panther Safari staff shall be appraised with procedures to be adopted in case of an animal escape.
  - Procedure should include reporting of the escape by the quickest possible means to the most senior member of staff.
  - The staff shall be trained at evacuating the Panther Safari; the security of the perimeter boundary, involving the closure of all points of entry and exit from, the Panther Safari.
  - Provision of darting equipment to tranquilize the animals shall be made.
  - A senior member of staff shall be readily available at all times to take decisions regarding euthanasia of escaped animal, if required.
  - The staff shall be trained to identify the exits which will be suitably located and shall have a big signage. Each exit shall be kept clear and be capable of being easily opened from inside to allow the release of visitors from the Panther Safari. All such gates should be capable of being closed and secured to prevent the escape.

Contingency plan for others-

1. Monkey and Dog menace
  - Tranquilize and recapture, relocate along with forest department (for monkeys) and with the help of NGOs like SPCA, PAWS (for dogs)

2. Arrangement of food in case of strike or natural disaster
  - Food reserves from deep freezer. The deep freezer will stock four days food. A small food animal farm will also provide for food.
3. Snake Bite
  - The Panther Safari staff shall be trained to not panic in case of a Snake Bite. Remain calm. Remember that the person may have been bitten but no venom injected.
  - Remove all jewellery from the bitten limb.
  - Call an ambulance to take the patient to a government hospital. If possible, carry the patient or assist them in such a way that movement is reduced. Ensure they are lying down while waiting.
  - During transportation, it is necessary to restrict movement.
  - Inactivity slows down the circulation of the venom through the body.
  - Wash and cleanse the wound.
  - Apply a tourniquet (see pic).
  - Visitors getting injured / falling inside water features or enclosures:
    - First aid kit will be available at the entrance and in the office.
    - Always seek medical attention. Never apply ice, cut the bite area or apply suction.
    - Never try to catch or kill the snake as it is dangerous and illegal to do so.

#### **7.1.2 Anti Snake Venom**

The Panther Safari shall have an appropriate number of Anti-snake venom (ASV) vials- which is an antidote for most of the venomous snakes. ASV should be administered by an experienced physician only. ASV can cause hypersensitivity in the patient when injected, so it should be administered with caution. A person can need 5 to 30 vials depending on the severity of symptoms of toxicity. Pinak tablet, an Ayurvedic antivenin remedy recently developed has proven exceptional results in government hospital in Pune district. It can be administered sublingual as a preliminary treatment and as well as adjuvant to ASV treatment. The tablet can ground into powder and kept under the tongue, with effective results within minutes that lasts for 6- 12 hours. The patient may require a dose of 1 to10 tablets depending upon the severity of the bite. It can be taken immediately after any snake bite. It is recommended to keep PINAK tablets for any snake bite emergencies.

#### **7.1.3 Visitor's Safety**

##### **Building and structure safety**

Buildings, structures and areas to which the public have access must be maintained in safe condition. The visiting public should not be allowed to enter any buildings or other areas of the zoo premises which could present a risk to their health and safety. Barriers should be erected to prevent visitors from entering prohibited areas.

##### **Contact with animals**

The staff will be trained to inform visitors of the risks on feeding or touching animals by way of notices at admission gates and in contact areas, prominently displayed signs and pictures and supervision by employees.

##### **Maintenance and renovation of enclosures**

Whenever building or renovating enclosures, are to be carried out or when existing parts of the facility are undergoing maintenance, hazards will be created. For eg. vehicle movement, plant and equipment stored and in use, materials and substances being used.

### **Trips and falls**

- Visitors areas and pathways should be non-slip, surfaces, or be grassed
- Slopes should have steps, paths or hand railing
- Provide shallow gradients for pushchairs and disabled access.
- Trees within areas where visitors are likely to be walking or sitting should be regularly inspected and felled so as to avoid injury by falling branches or becoming an aid to animal escape. Growth of thorny vegetation should be controlled to avoid injury to visitors.
- Walkways that pass over an enclosure it should be designed, constructed and maintained to ensure that it is safe.
- Barbed, razor wire or electrified fences should be beyond the reach of visitors.
- Cordon off areas where repair, maintenance work is being carried out
- Clear all accumulated debris after maintenance work is complete

### **First aid**

A first aid centre should be equipped with a first aid kit. First aid should be administered by a training medical attendant for minor injuries like cuts and abrasions. If the injury is severe, the patient should be taken to the nearest hospital

### **In case of fainting**

Lift the patient and move the patient to a resting place in shade. Onion or smelling salts should be administered when the patient recovers and provide clean drinking water.

### **Visitors falling inside enclosures**

- The visitors will be in an confined area that does not pose a risk
- Fighting amongst animals
- Keep tranquilizer weapon handy
- Medicine kit to be kept ready with anaesthetic agent
- Separate the animals.
- Keep injured in isolation ward with squeeze cage

#### **7.1.4 Epidemics**

##### **Employees**

- Employees entering the infected areas shall be asked to wear uniforms or outerwear that are supplied and laundered through the employer. The employee will be trained to deny carrying of uniforms or outerwear beyond the facility.
- Employees wash hands when arriving at work and before handling uniforms.
- Require that employees working in infected areas, wear footwear that does not leave the workplace and that the footwear is cleaned and disinfected before entering or exiting
- Place informational signage at the entrance to as a site for bio-security precautions.
- Develop a protocol for proper footbath preparation, maintenance, and disposal

- Develop an employee education program that includes general information on the importance of bio-security.

### **Collection Animals**

- Clean and disinfect transport cages, feed trays, and any equipment used with animals after each use and, where possible, restrict use within a specific group of animals.
- Quarantine and test, as appropriate, any collections that escape and are recaptured.
- Ensure that all collection animals that die receive prompt and appropriate necropsy.
- Develop infection control procedures for transporting birds and mammals that die

### **Animal Feed**

- Consider excluding whole egg products from entering facility. If used, whole poultry eggs should be obtained through a reliable processing facility where they are cleaned, washed, and disinfected. Use disposable, one-way egg packaging material.
- Prohibit bulk feed or their conveyances from entering facilities. Instead use bagged feed from reliable suppliers.
- Ensure that enrichment items are disinfected before being given to birds.
- Review general bio-security measures at animal food storage and distribution facilities
- Exclude fresh poultry manure from entering the facility unless properly heat-treated or composted.

### **Wild animals and birds**

- Develop or update protocols for handling sick and injured native animals and birds brought to a facility or found within a facility

### **Breakdown of power supply**

- 15 kw generator backup
- 2kw inverter
- 1kw UPS

### **Summer, Monsoon and Winter Management**

#### **Summer Management**

During the period of April to June there is an intense summer heat. The heat stress to the animal is distinctly visible in the hot summer and the Panther safari manpower and resources shall be stretched to the maximum to provide succour and relief to the animals. The safari staffs shall be asked to mitigate the effect of summer heat by spraying water on the animals by using sprinklers, dowsing animals with water and provide shade and shelter and change in diet. The diet composition is changed during summer and more succulent fruits and vegetables, porridges, cereal and gruel are provided to the animals. The summer management shall be drawn up keeping the requirement of the species and every effort is made to take advance action to prevent any sickness to the animals.

## **Monsoon and Winter Management**

The change in the climate from the hot summer to the wet monsoon and cold in winter and its effects to the Panther safari shall be kept in view to ensure the welfare of animals.

The season makes the animals vulnerable to diseases and therefore prophylactic measures to control the disease are required. Moreover, the physical environment around the animals is to be maintained for the welfare of the animal.

During monsoon and winter the following measures are initiated.

1. Provision of rain shelters in animal cells and kraals.
2. Bedding materials and loft to prevent chillness.
3. Periodical change of water in troughs and moats to prevent water born diseases and providing warm water to certain animals
4. Allowing sunlight by opening up tree canopy in the animal enclosure to provide additional warmth to the animals
5. Vaccination against contagious diseases in and around the Panther Safari.
6. Regular de-worming to prevent parasitic infections.
7. Separation of animals to avoid infighting during the breeding season.

## CHAPTER VIII

### 8.1 Capacity Building

#### 8.1.1 On-site

Signage shall be designed. The text for signage shall be developed in English, Hindi and Marathi language for the visitors in consultation with the reputed organization in the field.

#### 8.1.2 Technical Inputs

The help of Rajiv Gandhi Zoological Park, Pune, Panther Rescue Centre, Roha, Forest Government of Maharashtra and eminent experts shall be taken while designing and developing the facility.

#### 8.1.3 School Education

Developing resource material, trainer orientation, trained educational staff and outreach programs.

#### 8.1.4 Training

- Training for all levels of staff - from the management to the animal keepers  
Developing educators from the staff and volunteers. On site monthly workshops and training programs for zoo staff
- Off-site workshops for keepers and middle level officers as organized by CZA will be attended
- Invite national and international experts for lectures and demonstrations

#### 8.1.5 Sharing and networking

Collaborations with colleagues in similar facilities

#### 8.1.6 Public Relations

Good relations with media to support the conservation and education programs

## CHAPTER IX

### 9.1 E-Governance

Panther safari at Roha will develop an e-governance plan for

- Maintenance and updating of Inventory, individual animal history sheet, animal health details, daily register, food record - distribution and allocation, post mortem reports etc.
- An online internet based portal for various activities - online bookings, e-tickets, information dissemination.
- An exclusive website to provide detailed information on the project and its activities.

## CHAPTER X

### 10.1 Budget Analysis

#### 10.1.1 Non-Recurring Expenditure

SR. No.	Work Schedule for Phase I and II	Rs.
1	Construction of Animal houses-feeding and retiring cells & periphery fence/wall	2,26,69,000
2	Construction of entrance plaza	79,00,000
3	Constriction of public facilities	3,50,00,000
4	Electricity line laying	11,84,000
5	Water circulation pipe line laying	1,50,000
6	Storm water treatment	2,00,000
7	Horticultural activities	5,00,000
8	Landscaping activities	4,50,000
9	Construction of Veterinary Care Facility, Post Mortem Room	6,00,000
10	Creation of off-exhibit quarantine and isolation wards	6,00,000
11	Purchase of vehicles	15,00,000
12	Erection of sign boards	1,00,000
13	Installation of security systems	3,00,000
14	Landscaping activities	8,00,000
15	Construction of interpretation centre	8,00,000
16	Literature for visitors	2,00,000
17	Miscellaneous expenditures	23,00,000
18	<b>Grand Total</b>	<b>7,52,53,000</b>

Grand Total in words - Rupees Seven crore Fifty Two lakh Fifty Three Thousand only of various work scheduled to be proposed at Panther Safari during 2016-2023.

#### 10.1.2 Recurring Expenditure to be made on Feed and upkeep of Animals

Day to day Food Expenditure per Panther per Month

Sr. No.	Food item	Approx. Rate Per Kg	Quantity (Kg)	Amount
1	Meat	₹ 150.00	2.5	₹ 375.00
	<b>Cost of Feeding</b>	<b>Working</b>		<b>Annual Cost</b>
2	6 Days a week	375 x 6 Days a week		₹ 2,250.00
3	52 Weeks a year	2250 x 52 Weeks a year		₹ 117,000.00
4	6 Panthers per year	117000 x 6 Panthers per year		₹ 702,000.00
	(Above given rates are as of on 04/05/2016)			

### 10.1.3 Recurring Staff Wages & Salaries

SR.NO	Staff Detail	Positions	Tentative Wages in Rs. (per annum)	Total Wages per position in Rs. (per annum)
1	Project Leader	1	₹ 800,000	₹ 800,000
2	Veterinary Officer	1	₹ 500,000	₹ 500,000
3	Biologist	1	₹ 400,000	₹ 400,000
4	Education Officer	1	₹ 350,000	₹ 350,000
5	Animal Supervisor	1	₹ 300,000	₹ 300,000
6	Keeper	3	₹ 250,000	₹ 750,000
7	Attendant	2	₹ 200,000	₹ 400,000
8	Safari Driver	3	₹ 150,000	₹ 450,000
9	Gardner	2	₹ 120,000	₹ 240,000
10	Maintenance & Sanitation	2	₹ 200,000	₹ 400,000
11	Security	4	₹ 200,000	₹ 800,000
12	<b>TOTAL</b>	<b>21</b>	<b>₹ 3,470,000</b>	<b>₹ 5,390,000</b>

### 10.1.4 Recurring Electricity, Water, Staff Insurance

Sr. No.	Item Detail	Quantity	Tentative Expense in Rs/annum
1	Electricity	1	₹ 200,000
2	Water	1	₹ 300,000
3	Staff Insurance	1	₹ 300,000
4	Maintenance & Upkeep of Animal houses & other facilities	1	₹ 500,000
5	Miscellaneous	1	₹ 200,000
6	Fuel	1	₹ 1,000,000
7	<b>TOTAL</b>	<b>6</b>	<b>₹ 2,500,000</b>

Cumulative Recurring Expenses in Rs. (at 10% Annual Increase)								
#	Description	2017	2018	2019	2020	2021	2022	2023
1	Staff Salary	5,390,000	5,929,000	6,521,900	7,174,090	7,891,499	8,680,649	9,548,714
2	Animal Feeding	702,000	772,200	849,420	934,362	1,027,798	1,130,578	1,243,636
3	Maintenance	2,500,000	2,750,000	3,025,000	3,327,500	3,660,250	4,026,275	4,428,903
	<b>TOTAL</b>	<b>8,592,000</b>	<b>9,451,200</b>	<b>10,396,320</b>	<b>11,435,952</b>	<b>12,579,547</b>	<b>13,837,502</b>	<b>15,221,252</b>

## 10.2 Proposed Finance Budget

Source of funding for management of Panther Safari:

<b>Sr. No.</b>	<b>Revenue Generation</b>	<b>Percentage</b>
1	Entrance fees	3%
2	BOV Fees	3%
3	Camera Fees and Photograph	2%
4	Vehicle Parking Fees	8%
5	Gift Shop	4%
6	Animal Adoption Program	5%
7	<b>TOTAL</b>	<b>25%</b>

## CHAPTER XI

### 11.1 Management Plan

In order to have an efficient management of the Panther Safari at Roha, following are the proposed scheduled priorities for next 10 years-

#### Phase I

##### August 2015 to December 2016

##### **Infrastructure:**

Creation of establishment of the infrastructure including Animal houses- feeding and retiring cells 6 members, buildings, roads, water bodies, visitor facility, green areas, hospital, quarantine and isolation block, and establishment of Rescue Centre, information centre (as per the master layout) and building lab.

##### **Staffing:**

Appointing of the Project leader, Education officer, Biologist, visiting Veterinary officer, Keeper, Attendant, Driver, Gardener and veterinary staff.

##### **E-governance:**

- Computer network and internet installation
- Software for record and database management
- Website development

##### January 2017 to August 2017

- Completion of all the work related to infrastructure, hospital and animal housing, feeding cells, Rescue Centre, interpretation centre and barrier.
- Acquisition of Animal
- Capacity building of Staff
- Training of staff

##### September 2017

- Rescue Centre becomes functional

##### Ongoing Activity

##### **Capacity building and Education for visitors and local:**

- Target all villages and schools in Raigad district.
- Training programs for local volunteers
- Preparing all collateral literature for educational purpose
- Preparing information in Braille for the visually challenged.
- Friend of animal award for individual or institution engaged in conservation in Raigad district
- Events and programs during Wildlife week, Environment day, Earth day, Animal welfare fortnight
- Information boards on conservation for highway truck drivers
- Target all villages and schools outside Raigad district
- Training programs for volunteers from adjoining districts.

#### Phase II

##### January 2018 to December 2019

- Construction of library
- Construction of Safari
- Construction of Animal houses-Feeding and retiring cells- 6 numbers
- Acquisition of additional land

## Annexures

### 1.0 Flora at site

The Proposed Site and adjoining area have following species of trees, shrubs, herbs and climbers.

Sr. No	Common Local Name	Scientific Name
1	Karmal	<i>Dillenia pentagyna roxb.</i>
2	Pahadvel	<i>Cyclea peltata</i>
3	Kirmira	<i>Casearia esculanta</i>
4	Jangli Bhendi, Ran Bhendi	<i>Azanza lampas</i>
5	Varang	<i>Kydia calycina roxb.</i>
6	Bala, Karnaphul	<i>Sida cordata, borssum.</i>
7	Sawar	<i>Bombax ceiba</i>
8	Murud Sheng, Kevan	<i>Helicteres isora</i>
9	Phalasa	<i>Grewia asiatica</i>
10	Kunti-Pandhari	<i>Murraya paniculata</i>
11	Kakad	<i>Garuga pinnata roxb</i>
12	Ghanera	<i>Nothapodytes nimmoniana</i>
13	Pingri, Jotishmati	<i>Celastrus paniculatus willd</i>
14	-----	<i>Ventilago maderaspatana gaertn.</i>
15	Bor	<i>Zizyphus mauritiana lamk.</i>
16	Toran, Borati	<i>Zizyphus oenoplia</i>
17	Dinda	<i>Leea asiatica</i>
18	-----	<i>Allophyllus cobbe</i>
19	-----	<i>Lebisanthus tetraphyllus</i>
20	Kaju / Cashew	<i>Anacardium occidentale</i>
21	Bibba, Ballantak	<i>Semecarpus anacardium</i>
22	Palas	<i>Butea monosperma</i>
23	Lag, Andbail, Moranga	<i>Crotalaria filipes benth.</i>
24	Alai, Vavli	<i>Dalbergia horrid</i>
25	Salawan	<i>Desmodium triquetrum</i>
26	Kanphuti,	<i>Flemingia strobilifera</i>
27	Barki, Ganjva	<i>Geissaspis cristata</i>
28	Khaucha kuili	<i>Mucuna pruriens</i>
29	Ran-ghevada	<i>Paracalyx scariosa</i>
30	-----	<i>Bauhinia malabarica</i>
31	Aapata	<i>Bauhinia racemosa lamk.</i>
32	Sagargota	<i>Caesalpinia bondoc</i>
33	Lalai, Tugli	<i>Albizzia amara</i>
34	Kinaee, safed siras	<i>Albizzia procera</i>
35	Ukshi, Baguli	<i>Calycopteris floribunda lamk.</i>
36	Behada	<i>Terminalia bellerica</i>
37	Kinjal	<i>Terminalia paniculata</i>

38	Pan-jambhal	<i>Syzygium alternans</i>
39	Jambhul	<i>Syzygium cumini</i>
40	Kumbha	<i>Caraya arborea roxb.</i>
41	Lendi-bondara, Nana	<i>Lagerstroemia parviflora roxb.</i>
42	Dhayati	<i>Woodfordia fruticosa</i>
43	Dalimb, Anar	<i>Punica granatum</i>
44	Gela, Mindphal	<i>Catunaregam spinosum</i>
45	-----	<i>Haldinia cordifolia</i>
46	Ixora, Lokhandi, Gorbale	<i>Ixora brachiata roxb.</i>
47	Kalamb	<i>Mitragyna parvifolia</i>
48	Helu, Heliv	<i>Vangueria spinosa roxb.</i>
49	-----	<i>Baccharoides scabridum</i>
50	Nimurdi	<i>Blumea eriantha</i>
51	Gangavati	<i>Blumea lacera</i>
52	Gangotra	<i>Cyathocline purpurea</i>
53	Hastipada, Gojivha	<i>Elephantopus scaber</i>
54	Mothi, Sadori	<i>Vernonia cinera</i>
55	-----	<i>Wollastonia biflora</i>
56	Vauding, Ambati	<i>Embelia basal</i>
57	Kusar, Ran Mogra	<i>Jasminum malabaricum</i>
58	Karvand	<i>Carissa congesta</i>
59	Kala-Kuda	<i>Holarhena antidysenterica</i>
60	Kali-Kauli	<i>Cryptolepis dubia</i>
61	Anantmul / Anantwell	<i>Hemidesmum indicus</i>
62	Bhokar	<i>Cordia dichotoma</i>
63	Gayari/Dudhwell/Bondwell	<i>Argyreia sp.</i>
64	Waras	<i>Heterophragma quadrilocularis</i>
65	Padal	<i>Stereospermum personatum</i>
66	Dashmuli	<i>Eranthemum roseum</i>
67	Ran-tewan	<i>Hygrophila serphyllum</i>
68	Ghati-pilpapada	<i>Rungia repens</i>
69	Pit-Karvi, Gurgi	<i>Thelepaepale ixiocephala</i>
70	Sag/ Teak	<i>Tectona grandis</i>
71	Nirgudi	<i>Vitex negundo</i>
72	Chandhara	<i>Epimeredi heyneana</i>
73	Pangali, Phangla	<i>Pogostemon benghalensis</i>
74	Bandgul, Betungli	<i>Dendrophthoe falcate</i>
75	Small Bandgul	<i>Macrosolen parasiticus</i>
76	Cup-in-saucer, Kangli	<i>Breynia retusa</i>
77	Chikali	<i>Bridelia scandens</i>
78	Kunkuphal, Shendri	<i>Mallotus philippensis</i>
79	Chinch, Amala, Neli	<i>Phyllanthus emblica</i>
80	Paypar, Pipri	<i>Ficus amplissima</i>
81	Kala Umber	<i>Ficus hispida</i>
82	Umbar	<i>Ficus racemosa</i>
83	Ghot-well	<i>Smilax zeylanica</i>

## 2.0 Free Ranging Animals at site

### Mammals

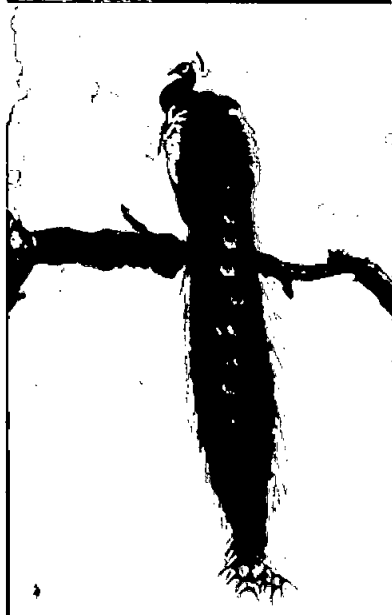
1. Grey Mongoose *Herpestes edwardsii*
2. Small Indian Civet *Viverricula indica*
3. Common Palm civet *Paradoxurus hermaphrodirus*
4. Three striped squirrel *Funambulus palmarum*
5. Jackal *Canis Avreus*

### Birds

1. Shikra *Accipiter badius*
2. Kite *Milvus migrans*
3. Bramhini kite *Haliastur indus*
4. Horned owl *Bubo buba*
5. Fish owl *Ketvpa flavipes*
6. Jungle owlet *Glaucidium radiatum*
7. Peafowl *Pavo cristatus*
8. Buff throated partridge *Tetraophasis szechenyii*
9. Jungle bush quail *Perrdicula asiatica*
10. Koel *Evdynamya scolopacea*
11. Crow pheasant *Centropus sinensis*
12. Purple sunbird *Nectarinia asiatica*
13. Grey hornbill *Ocyceros birostris*
14. Pied hornbill *Anthracoceros coronatus*
15. Kingfisher *Alcedo attnis*
16. Pond Heron *Ardeola grayii*
17. Grey heron *Ardea cinerea*
18. Purple heron *Ardea purpurea*
19. Indian Night jar *Caprimulgus asiaticus*
20. Indian roller *Coracias benghalensis*
21. Coppersmith barbet *Megalaima rubricapilla*
22. Black drongo *Dicrurus macrocercus*
23. Racket tail drongo *Dicrurus paradiseus*

### Reptiles

1. Indian chameleon *Chameleon zeylanicus*
2. Monitor lizard *Varanus bengalensis*
3. John's Sand boa *Eryx johnii*
4. Common vine snake *Ahaetulla nasuta*
5. Rat snake *Ptyas mucosa*
6. Cobra *Naja naja*
7. Common cat snake *Boiga trigonata*
8. Saw scaled viper *Echis carinatus*
9. Common sand boa *Gongylophis conicus*
10. Indian python *Python molurus molurus*
11. Russell's viper *Daboia russelii*
12. Green keelback *Macrophistodon plumbic*

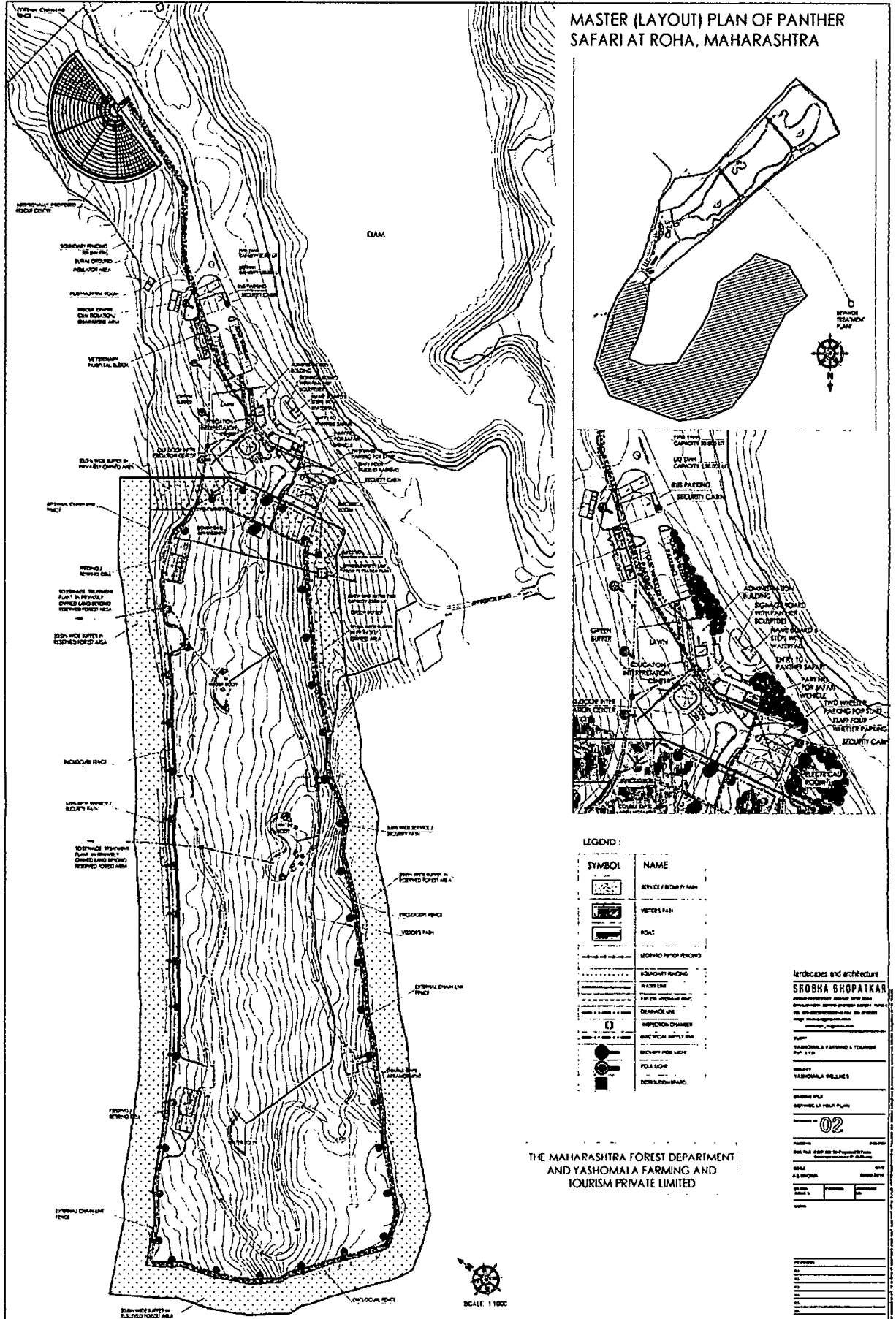






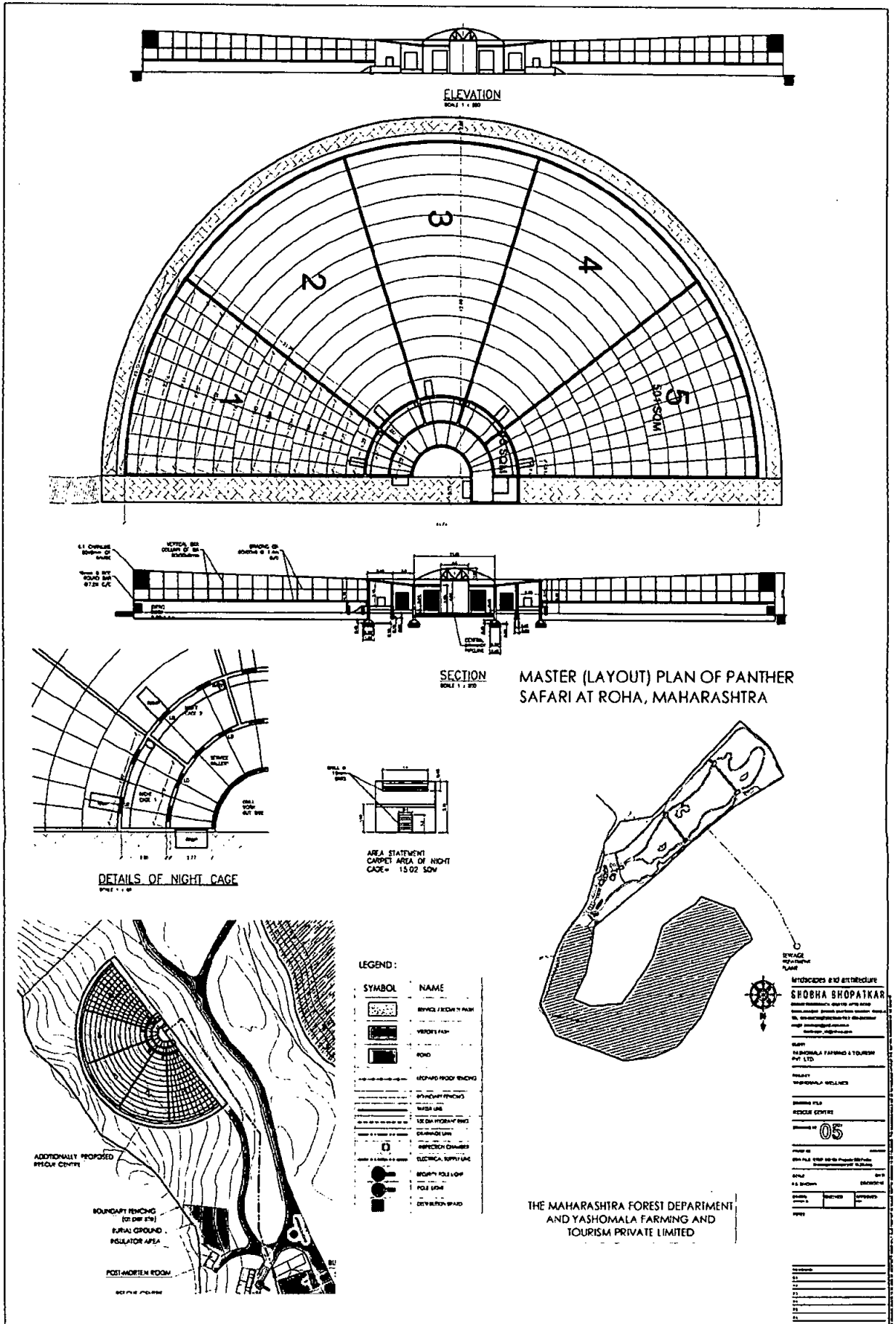


### 3.4 Services Layout: Water Supply, Drainage & Electrical





### 3.6 Rescue Centre



### PANTHER SAFARI AT ROHA, MAHARASHTRA

#### DESIGN OF THE FEEDING / RETIRING CELLS, VETERINARY FACILITY AND FENCING

**FRONT ELEVATION (SCALE 1:100)**

**SECTION ON YY' (SCALE 1:100)**

**PLAN OF VETERINARY FACILITY (SCALE 1:100)**

**ROOF PLAN OF VETERINARY FACILITY (SCALE 1:100)**

**SECTION BB' (SCALE 1:100)**

**ELEVATION (SCALE 1:100)**

**SECTIONAL VIEW OF PANTHER PROOF FENCING (SCALE 1:100)**

**ELEVATION (SCALE 1:100)**

**SECTION OF PANTHER PROOF FENCING (SCALE 1:100)**

**PLAN - FEEDING / RETIRING CELLS FOR LEOPARD (SCALE 1:100)**

**THE MAHARASHTRA FOREST DEPARTMENT AND YASHOMALA FARMING AND TOURISM PRIVATE LIMITED**

Landscape and architecture

SHOBHA BHOPATKAR

PRACTICE ADDRESS: 101/102, 103/104, 105/106, 107/108, 109/110, 111/112, 113/114, 115/116, 117/118, 119/120, 121/122, 123/124, 125/126, 127/128, 129/130, 131/132, 133/134, 135/136, 137/138, 139/140, 141/142, 143/144, 145/146, 147/148, 149/150, 151/152, 153/154, 155/156, 157/158, 159/160, 161/162, 163/164, 165/166, 167/168, 169/170, 171/172, 173/174, 175/176, 177/178, 179/180, 181/182, 183/184, 185/186, 187/188, 189/190, 191/192, 193/194, 195/196, 197/198, 199/200, 201/202, 203/204, 205/206, 207/208, 209/210, 211/212, 213/214, 215/216, 217/218, 219/220, 221/222, 223/224, 225/226, 227/228, 229/230, 231/232, 233/234, 235/236, 237/238, 239/240, 241/242, 243/244, 245/246, 247/248, 249/250, 251/252, 253/254, 255/256, 257/258, 259/260, 261/262, 263/264, 265/266, 267/268, 269/270, 271/272, 273/274, 275/276, 277/278, 279/280, 281/282, 283/284, 285/286, 287/288, 289/290, 291/292, 293/294, 295/296, 297/298, 299/300, 301/302, 303/304, 305/306, 307/308, 309/310, 311/312, 313/314, 315/316, 317/318, 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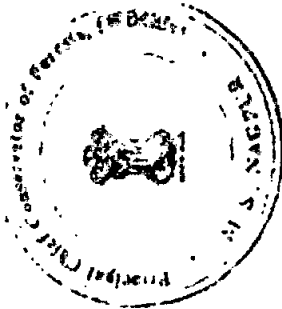
Between

The MAHARASHTRA FOREST DEPARTMENT, which is a Government Department under the GOVERNMENT OF MAHARASHTRA, represented by its PRINCIPAL CHIEF CONSERVATOR OF FORESTS (WILDLIFE) & CHIEF WILDLIFE WARDEN, MAHARASHTRA, hereinafter referred to as the "FIRST PARTY" (which term and expression shall unless repugnant to the context mean and include its successors, administrators, executors, legal representatives and assignees) on the ONE PART

AND

YASHOMALA FARMING AND TOURISM PRIVATE LIMITED, PUNE, hereinafter referred to as the "SECOND PARTY" represented by it's Director Shri. Aniruddha Pradyumna Deshpande (which term and expression shall unless repugnant to the context mean and include its successors, administrators, executors, trustees, legal representatives and assignees) on the OTHER PART.

1. WHEREAS the FIRST PARTY is a Government Department under the GOVERNMENT OF Maharashtra, represented by its Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Maharashtra and engaged in the administration of forests & wildlife in the state of Maharashtra and matters incidental or related thereto.
2. AND WHEREAS the SECOND PARTY is an enterprise, registered under the Companies Act, 1956, and is engaged in the business of tourism industry and to develop ecological tourism centre of international standard and Agro Tourism in India and abroad.
3. AND WHEREAS the SECOND PARTY is desirous of contributing to the conservation and welfare of endangered wildlife of Maharashtra, and with this aim and objective, is interested to set up a leopard safari (hereinafter referred to as Leopard Safari) at its own estate in GAT No. 162, 165 & 166 of village Tareghar, Taluka Roha, Dist Raigad, and
4. AND WHEREAS the SECOND PARTY has already prepared a project for setting up and maintaining of the Leopard Safari on its own land and at entirely at its own cost, and has already submitted the proposal to the Central Zoo Authority (hereinafter referred to as CZA) for its approval and the same is under consideration of that authority.
5. AND WHEREAS BOTH THE PARTIES are of the common view that setting up of a safari of this type will help in proper upkeep of the leopards that have been caught from the wild due to their attacks on



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humans and which cannot be released back into the wild for various reasons,

6. AND WHEREAS CZA vide its letter no. 20/1/2008 CZA, dated the 6<sup>th</sup> August, has communicated to both the parties that in the interest of long term scientific management of the Leopard Safari, technical support of the First Party is necessary, and hence the proposed safari should be managed as a joint venture between the two parties (A copy of the said letter is placed at annexure),

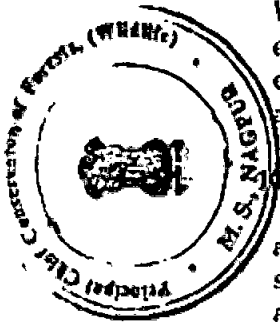
7. AND WHEREAS BOTH THE PARTIES agree to enter into a joint venture as desired by CZA and for that purpose desire to put their agreement in writing,

**NOW THEREFORE THIS MOU WITNESSETH AS UNDER:**

Both parties agree that the following is the action plan and the scope of work related thereto:

8. THE SECOND PARTY will establish the Leopard Safari at Gat No.162/165 &166, Tareghar, Taluka Roha, District Raigad and on land under its ownership and title entirely at its own cost, and will also manage the facility entirely at its own cost on a long term basis.

9. THE SECOND PARTY will arrange for getting recognition of the Central Zoo Authority for the Leopard Safari under Section 38(H) of the Wildlife (Protection) Act, 1972. For this purpose the FIRST PARTY will endeavour to extend all possible help and cooperation, including endorsement of the proposal, if and when required by CZA or any other authority or a Court of Law in this behalf.



10. Liabilities and responsibilities:

a) THE SECOND PARTY agrees and undertakes to ensure that the said safari will be operated strictly in accordance with the rules, regulations and guidelines in this behalf as framed by CZA under the Recognition of Zoo Rules, 1982, and various directives, circulars etc. issued by CZA from time to time under the said rules and otherwise.

b) THE SECOND PARTY further agrees that it will be its sole responsibility and liability to strictly adhere to the laws, rules and regulations related to operation of the Leopard Safari, and any cognisance/action taken in this regard by any authority, including the Chief Wildlife Warden, Maharashtra or any other officer authorised by the

*[Handwritten signature]*

*[Handwritten signature]*





Member  
Member

- i) Chief Conservator of Forests (WL), Mumbai:
- ii) Sub-Divisional Forest Officer, Kaha Dn:
- iii) Veterinary Officer, Sanjay Gandhi National

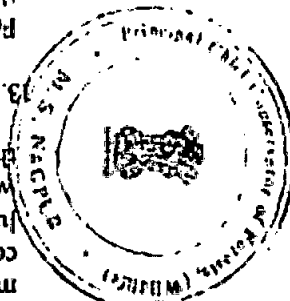
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a) 3 Representatives of the First Party:

For monitoring and keeping control over the implementation of the MOU, there will be a committee [hereinafter referred to as Project Management Committee (PMC)] headed by the Chief Conservator of Forests, Thane Circle, Thane and comprising the following members:

13. Project Management Committee:

THE FIRST PARTY agrees to advise the SECOND PARTY on any issue related to maintenance of the Leopard Safari and its inmates, and also to make arrangements for technical, including veterinary, assistance/consultation of experts from other facilities like the Rescue Centre at Lunar, Pune and the Sanjay Gandhi National Park, Borivli, Mumbai, whenever required for this purpose by the SECOND PARTY, at the cost of the latter.



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12. Technical assistance by First Party:

b) THE SECOND PARTY agrees not to accept or procure by any means whatsoever, any other animals for keeping at the Leopard Safari, without the prior and specific approval of the Chief Wildlife Warden in writing.

a) THE FIRST PARTY agrees to arrange for transfer of panthers/leopards caught from various places in the state and kept under temporary captivity and which for various reasons, cannot be rehabilitated into the wild or elsewhere, to the Leopard Safari, subject to decision of the Principal Chief Conservator (Wildlife) & Chief Wildlife Warden, Maharashtra, in this regard.

11. Transfer of leopards to the Safari:

c) THE SECOND PARTY further agrees that in the event of its inability to operate the Leopard Safari in accordance with the laws and regulations in force, and in the event of withdrawal of recognition granted to the Safari by CZA, it will its responsibility to relocate the animals kept in the safari elsewhere at its own cost and as directed by the Chief Wildlife Warden, Maharashtra.

State Government in this behalf, will be without prejudice to the contents of this MOU.

- |                                             |        |
|---------------------------------------------|--------|
| Park, Borivli:                              | Member |
| b) 2 Representatives of the Second Party:   | Member |
| c) Honorary Wildlife Warden, Raigad Distt.: | Member |

A meeting of the PMC cannot be held valid without the presence of at least one representative from each of the parties unless intimated specifically in writing. The PMC will meet at least once in a month and as may be mutually agreed by its members. The decision of the committee will be taken by majority. In case of equal votes the Chairman will have casting vote. The PMC will monitor the project and provide technical advice during the operation of the safari until such time as is decided by the State Government in consultation with CZA.

**14. Safety of the staff and visitors**

Safety of the staff & any visitors will be the sole responsibility of the SECOND PARTY who will be at liberty to get an indemnity bond signed by the staff & visitors in a manner mutually settled upon by FIRST PARTY and SECOND PARTY.

**15. Staff deployed at the Safari:**

The SECOND PARTY will employ the required skilled/ unskilled staff to work for the running and maintenance of the Leopard Safari in conformation with the Recognition of Zoo Rules, 1962. All the employees, temporary or otherwise, engaged by the SECOND PARTY inside the Leopard Safari shall be insured against accidents. The SECOND PARTY will be solely responsible for ensuring adherence to laws, regulations and statutes related to engaging all such workmen.



**16. Safari as Training & Educational Centre:**

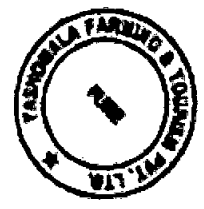
The SECOND PARTY, in consultation with the FIRST PARTY, will,

i) try and make the Leopard Safari into a training and education hub for the field staff of the Maharashtra Forest Department by trying to make this a model nature education centre.

ii) create an interpretation centre inside the Leopard Safari which will assist in imparting wildlife education for the field staff during their training as well as for any other visitors.

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**17. Tagging/Micro-chipping of leopards**

THE SECOND PARTY will ensure that the leopards received at the said Safari either by means of rescue, trapping, surrender, confiscation or seizure are marked for identification through micro-chipping or any other means in conformity with the provisions of the Wildlife Protection Act and guidelines of the Central Zoo Authority.

**18. Post mortem:**

Post mortem will be mandatory for any leopard which dies in the Leopard Safari. Post mortem will be carried out by a veterinary doctor employed by the SECOND PARTY at the Safari in the presence of one Govt. veterinary doctor or the concerned official of the FIRST PARTY and the immediate cause of death shall be ascertained and the carcass shall be disposed of in the presence of the Forest Department Officials. To evaluate the reasons of death the necessary samples collected during the post mortem shall be sent to registered laboratories for analysis as per the laid down procedures of the Forest Department. All such costs incurred upon post mortem, travelling, sending of samples, transportation etc will be borne by the SECOND PARTY.



**19. Liability for non-performance:**

The parties shall not be liable for non-performance of any part of this agreement if such non performance is on account of force majeure, natural calamities such as floods, fires, war etc.

**20. Dispute Resolution:**

In case of any dispute arising under this agreement the parties shall endeavour to resolve the matter amicably through negotiations. In case such resolution is not possible, the parties agree to refer the dispute to the Add. Chief Secretary (Forests), Government of Maharashtra, whose decision would be final and binding on both the parties.

*Handwritten signature*

*Handwritten signature*



The parties herein hereby declare that they have signed and executed two originals of these presents, one of which shall be kept in the custody of the FIRST PARTY and the other one shall be kept in the custody of the OF THE SECOND PARTY

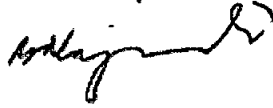
SIGNED

SIGNED

FIRST PARTY  
Maharashtra Forest Department

SECOND PARTY  
For Yashomala Farming and  
Tourism Private Limited, Pune  
Mr. Aniruddha Pradyumna Deshpande  
Director

Authorised Representative



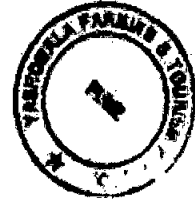
B. MAJUMDAR  
PRINCIPAL CHIEF CONSERVATOR OF FORESTS  
MAHARASHTRA STATE  
"YASHOMALA", BANGH ROAD, CIVIL LINE, PUNE



Mr. Aniruddha Pradyumna Deshpande  
Director

DATE 7th Oct, 08

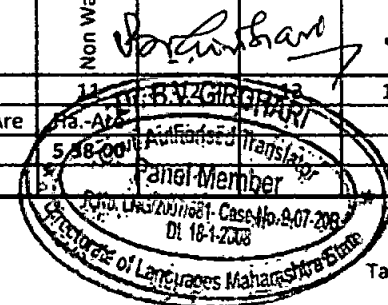
DATE 07th Oct 08



VILLAGE FORMAT 7 (RECORD OF RIGHTS)													
As per Rule 3, 5, 6 and 7 of The Maharashtra Land Revenue Officer Records (Compilation, Maintanance) 1971.													
Village		Tareghar		Tahsil	Roha		District	Raigad					
Gut/Survey No.	Subdivision of Gut/Survey No.	Nature of Land Holding		Name of Land Holder				Account No.	150				
162		Khalsa		M/s Yashomala Farming & Tourism Pvt. Ltd. Director Srikant Govind Tamhane				Mutation Entry No.	307				
Local Name of the Farm								Name of the Tiller		Cess		Rs.	Ps.
Area Under Cultivation		Ha.	Sq. M.										
Warkas		5.38	0										
Total		5.38	0										
Non Cultivable Land								Other Rights					
Class-A		0.77	0							Deleted from		216	
Class-B										Section 35		129	
Total		0.77	0							Forest		138	
Asseament (Rs. - Ps.)		Rs.	Ps.										
Special Assesment (N. A.)		3	94										

VILLAGE FORMAT 12 (RECORD OF CROPS)															
As per Rule 3, 5, 6 and 7 of The Maharashtra Land Revenue Officer Records (Compilation, Maintanance) 1971, Rule 29.															
Year	Season	Details of Land Under Cultivation									Land Not Available for Cultivation		Surce of Water Irrigation	Name of the Person Tilling the Land	Remark
		Area Under Mixed Crop			Area Under Each Crop			Area Under Net Crop			Nature	Area			
		Crop Code of Mixed Crop	Water Irrigated	Non Water Irrigated	Name of the Crop	Water Irrigated	Non Water Irrigated	Name of the Crop	Water Irrigated	Non Water Irrigated					
											Ha.-Are	Ha.-Are			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2013/2014								Grass		5.48				Land Holder	

True copy of the original record issued dated: 20/05/2014



SD/-  
Talathi Saja Roha  
Tahsil Roha, District Raigad

VILLAGE FORMAT 7 (RECORD OF RIGHTS)												
As per Rule 3, 5, 6 and 7 of The Maharashtra Land Revenue Officer Records (Compilation, Maintenance) 1971.												
Village		Tareghar		Tahsil	Roha		District	Raigad				
Gut/Survey No.	Subdivision of Gut/Survey No.	Nature of Land Holding		Name of Land Holder			Account No.	21				
165		Khalsa		M/s Yashomala Farming & Tourism Pvt. Ltd. Director Srikant Govind Tamhane			Mutation Entry No.	306				
Local Name of the Farm							Name of the Tiller		Cess		Rs.	Ps.
Area Under Cultivation		Ha.	Sq. M.									
Warkas		5.22	0									
Total		5.22	0								Other Rights	
Non Cultivable Land									Forest		Mutation Entry No.	
Class-A											129	
Class-B											138	
Total												
Asseament (Rs. - Ps.)		Rs.	Ps.									
Special Assesment (N. A.)		4	31									

VILLAGE FORMAT 12 (RECORD OF CROPS)															
As per Rule 3, 5, 6 and 7 of The Maharashtra Land Revenue Officer Records (Compilation, Maintenance) 1971, Rule 29.															
Year	Season	Details of Land Under Cultivation									Land Not Available for Cultivation		Surce of Water Irrigation	Name of the Person Tilling the Land	Remark
		Area Under Mixed Crop			Area Under Each Crop			Area Under Net Crop			Nature	Area			
		Crop Code of Mixed Crop	Water Irrigated	Non Water Irrigated	Name of the Crop	Water Irrigated	Non Water Irrigated	Name of the Crop	Water Irrigated	Non Water Irrigated					
											Ha.-Are	Ha.-Are			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
2013/2014								Grass		5.22				Land Holder	

True copy of the original record issued dated: 20/05/2014

*B. V. Giridhar*  
 B.V. GIRIDHAR  
 Authorised Translator  
 Panel Member  
 R.No. LMG/2007/681-Case No. 947-2008  
 Dt. 18-1-2008  
 Directorate of Languages Maharashtra State

SD/-  
 Talathi Saja Roha  
 Tahsil Roha, District Raigad

VILLAGE FORMAT 7 (RECORD OF RIGHTS)									
As per Rule 3, 5, 6 and 7 of The Maharashtra Land Revenue Officer Records (Compilation, Maintenance) 1971.									
Village		Tareghar		Tahsil	Roha	District	Raigad		
Gut/Survey No.	Subdivision of Gut/Survey No.	Nature of Land Holding		Name of Land Holder			Account No.	76	
166		Khalsa					Mutation Entry No.	Cess	
Local Name of the Farm				M/s Yashomala Farming & Tourism Pvt. Ltd.			236	Name of the Tiller	
Area Under Cultivation		Ha.	Sq. M.	Director Srikant Govind Tamhane			308	Rs.	Ps.
Warkas		7.33	0						
Total		7.33	0					Other Rights	
Non Cultivable Land							Mutation Entry No.		
Class-A							Deleted from Section 35 Forest		129
Class-B									138
Total									
Assessment (Rs. - Ps.)		Rs.	Ps.						
Special Assesment (N. A.)		5	23						

VILLAGE FORMAT 12 (RECORD OF CROPS)																
As per Rule 3, 5, 6 and 7 of The Maharashtra Land Revenue Officer Records (Compilation, Maintenance) 1971, Rule 29.																
Year	Season	Details of Land Under Cultivation										Land Not Available for Cultivation	Surce of Water Irrigation	Name of the Person Tilling the Land	Remark	
		Area Under Mixed Crop					Area Under Net Crop									
		Crop Code of Mixed Crop	Water Irrigated	Non Water Irrigated	Area Under Each Crop			Name of the Crop	Water Irrigated	Non Water Irrigated	Nature					Area
					Name of the Crop	Water Irrigated	Non Water Irrigated									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
			Ha.-Are	Ha.-Are		Ha.-Are	Ha.-Are		Ha.-Are	Ha.-Are						
2013/2014								Grass		7.33-00					Land Holder	

True copy of the original record issued dated: 20/05/2014

*B. V. GIRDHARI*  
 B.V. GIRDHARI  
 Gold Authorised Translator  
 Panel Member  
 R.No. LMG/2007/681- Case No. 9-07-208  
 Dt. 18-1-2008  
 Directorate of Languages Maharashtra State

SD/-  
 Talathi Saja Roha  
 Tahsil Roha, District Raigad

ITEM Nos.301 to 321,  
MM1 & MM2

COURT NO.12

SECTION PIL

S U P R E M E C O U R T O F I N D I A  
R E C O R D O F P R O C E E D I N G S

301. I.A Nos. 2530-2531 in WRIT PETITION (CIVIL) NO(s). 202 OF 1995

T.N. GODAVARMAN THIRUMULPAD

Certified to be true copy

Petitioner(s)

VERSUS

Assistant Registrar (Civl.)

10.05.12

Supreme Court of India

Respondent(s)

UNION OF INDIA & ORS  
(FOR IMPLEADMENT AND DIRECTIONS)

302. I.A.NOs. 3358-3360 in WRIT PETITION (CIVIL) NO(s). 202 OF 1995  
(FOR IMPLEADMENT, DIRECTIONS AND EXEMPTION FROM FILING O.T.)

WITH

I.A.NOs. 3448-3449 IN I.A.NOs. 3358-3360 IN W.P.(C) 202/1995  
(FOR PLACING ON RECORD ADDL. FACTS AND DOCUMENTS AND  
EXEMPTION FROM FILING O.T.) FILED BY MR. SRIDHAR POTARAJU, ADV.

303. I.A.NO. 3402 IN I.A.No. 2378 in 2164 with I.A.No. 3433 in  
WRIT PETITION (CIVIL) NO(s). 202 OF 1995  
(FOR DIRECTIONS AND SEEKING PERMISSION TO PLACE ADDITIONAL  
FACTS AND DOCUMENTS ON RECORD)

304. I.A.NOs. 3427-3428 IN I.A.NOs. 1424-1425 IN W.P.(C) 202/1995  
(FOR DIRECTIONS AND EXEMPTION FROM FILING O.T.)

WITH

W.P.(C) NO. 469/2005

305. I.A.NO. 2066 @ CONT. PET. @ NO. 133/2007 IN W.P.(C) 202/1995  
(FOR DIRECTIONS)

306. I.A.NOs. 3118-3120 IN W.P.(C) NO. 202/1995  
(FOR IMPLEADMENT, PERMISSION AND EXEMPTION FROM FILING O.T.)

307. I.A.NOs. 3133 & 3134 IN W.P.(C) NO. 202/1995  
(FOR PERMISSION AND EXEMPTION FROM FILING O.T.)

308. I.A.NOs. 3051-3053 & 3423 IN W.P.(C) NO. 202/1995  
(FOR INTERVENTION, DIRECTIONS, EXEMPTION FROM FILING O.T. AND  
PERMISSION TO FILE REJOINDER AFFIDAVIT)

309. I.A.NOs. 1370-1370A IN I.A.NO. 566/2000 IN W.P.(C) NO. 202/1995  
(FOR DIRECTIONS, EXEMPTION FROM FILING O.T.)
310. I.A.NO. 1 IN ORIGINAL SUIT NO. 3/2011  
(FOR AD-INTERIM EX-PARTE STAY)
311. I.A.NO. 16 IN W.P.(C) NO. 47/1998  
(FOR PERMISSION TO ESTABLISH PANTHER SAFARI AT ROHA DISTT.,  
RAIPUR (MAH.)
312. SLP(C) NO. 12498-12499/2010  
(FOR DIRECTIONS AND CLARIFICATION/DIRECTIONS)
313. PART-HEARD I.A.NO. 100 IN W.P.(C) NO. 337/1995  
(FOR INTERVENTION)
314. S.L.P.(C) NO. 729-731/2011  
(WITH APPLN. FOR EXEMPTION FROM FILING C/C OF THE  
IMPUGNED JUDGMENT AND OFFICE REPORT)
315. I.A.NOs. 3450-3451 IN I.A.NOs. 3297-3299 IN W.P.(C) 202/1995  
(FOR DIRECTIONS AND EXEMPTION FROM FILING O.T.)
316. S.L.P.(C) NO. 15301-15305/2012  
(WITH PRAYER FOR INTERIM RELIEF AND OFFICE REPORT)
- WITH
- SLP(C) ... CC 8881/2012  
(WITH APPLNS. FOR PERMISSION TO FILE SLP AND WITH PRAYER  
FOR INTERIM RELIEF AND OFFICE REPORT)
317. I.A.NOs. 94-95, 96-97, 98-99 & 100-101 IN SLP(C) Nos.  
19628-19629/2009  
(FOR IMPLEADMENT AS PETITIONER ON BEHALF OF PRABHAT GRANITES  
PVT. LTD. AND CLARIFICATION/DIRECTIONS BY MR. N.  
GANPATHY, ADVOCATE AND FOR IMPLEADMENT AS PETITIONER ON BEHALF  
OF R.C. INDIA AND CLARIFICATION/DIRECTIONS BY MR. N.  
GANPATHY, ADVOCATE)
318. S.L.P. (C) No. 15652/2012  
(WITH APPLNS. FOR EXEMPTION FROM FILING C/C OF THE IMPUGNED  
JUDGMENT AND WITH PRAYER FOR INTERIM RELIEF AND OFFICE REPORT)
319. SLP(C) D.NO. 16030/2012 FILED BY MR. Y. RAJAGOPALA RAO, ADV.
320. SLP(C) D.NO. 16031/2012 FILED BY MR. Y. RAJAGOPALA RAO, ADV.
321. SLP(C) D.NO. 15975/2012 FILED BY MR. D. MAHESH BABU, ADV.

Mr. Sunil Kumar Jain, Adv.  
Mr. Radha Shyam Jena, Adv.  
Mr. Irshad Ahmad, Adv.  
Ms. Hemantika Wahi, Adv.  
M/s M.V. Kini & Associates, Adv.  
M/s K.J. John & Co., Adv.  
Mr. Ramesh Babu M.R., Adv.  
Mr. Y. Raja Gopala Rao, Adv.  
Mr. D.S. Mahra, Adv.  
Mr. Rauf Rahim, Adv.  
Mr. S.N. Terdal, Adv.  
Mr. Vimal Chandra S. Dave, Adv.  
Mr. Mohit Kumar Shah, Adv.  
Mr. Balbir Singh Gupta, Adv.  
Mr. Shree Pal Singh, Adv.  
Mr. Vijay Panjwani, Adv.  
Mr. Devashish Bharuka, Adv.  
Mr. Anip Sachthey, Adv.  
Mr. Anil Kr. Jha, Adv.  
Mr. G.N. Reddy, Adv.  
Mr. Venkateswara Rao Anumolu, Adv.  
Mr. A. Venayagam Balan, Adv.  
Mr. Kamal Mohan Gupta, Adv.  
Mr. N. Ganpathy, Adv.  
Mr. Robin Majmudar, Adv.

MM1 I.A.NO. IN I.A.Nos. 12-13 TO 18-19 IN S.L.P. (C) Nos. 19628-19629/2009

MM2 SLP(C) D.NO. 16054/2012 FILED BY MR. ROBIN MAJMUDAR, ADV.

Date: 07/05/2012 These I.As./Petition were called on for hearing today.

CORAM :

HON'BLE MR. JUSTICE K.S. RADHAKRISHNAN  
HON'BLE MR. JUSTICE CHANDRAMAULI KR. PRASAD

For the parties :

Mr. P.S. Narasimha, Sr. Adv.  
Mr. Gaurav Agrawal, Adv.  
Mr. K. Parameshwar, Adv.  
Mr. Haris Beeran, Adv.  
Mr. P.K. Manohar, Adv.  
Mr. Ashok Mathur, Adv.  
Ms. Anitha Shenoy, Adv.  
Mr. Raj Kumar Mehta, Adv.  
Mr. Shibashish Mishra, Adv.  
Mr. L.R. Singh, Adv.  
Ms. Binu Tamta, Adv.  
Mr. E.C. Agrawala, Adv.  
Mr. M.P. Jha, Adv.  
Mr. D.K. Sinha, Adv.  
Mr. Sushil Kumar Jain, Adv.  
Ms. Vibha Datta Makhija, Adv.  
Mr. Rajesh Srivastava, Adv.

301. Mr. P.R. Ramasesh, Adv.  
Mr. Azeem A. Kalebudde, Adv.
- Mr. Gopal Prasad, Adv.
- Ms. Anita Shenoy, Adv.
302. Mr. Parag Tripathi, Sr. Adv.  
Mr. Sridhar Potaraju, Adv.  
Mr. Gaichang Gangmer, Adv.
- Mr. C.D. Singh, Adv.  
Mr. Sunny Chowdhary, Adv.  
Mr. Gaurav Kaushik, Adv.
- Mr. Prashant Kumar, Adv.  
Mr. Sumeer Sodhi, Adv. for  
M/s AP & J Chambers, Advs.
303. Mr. K.K. Venugopal, Sr. Adv.  
Mr. Raj Kumar Mehta, Adv.  
Mr. Antaryami Upadhyay, Adv.  
Mr. Ankur Talwar, Adv.  
Mr. David A., Adv.
304. Mr. Rohit Arya, Sr. Adv.  
Mr. Nitin Gaur, Adv.  
Mr. Sunil Singh Parihar, Adv.
- Mr. K.K. Venugopal, Sr. Adv.
- Mr. Soli J. Sorabjee, Sr. Adv.
- Mr. Prashanto Chandra Sen, Adv.  
Ms. Aanchal Yadav, Adv.  
Ms. Binu Tamta, Adv.  
Mr. Ankur Talwar, Adv.  
Mr. Rohit Bhat, Adv.  
Mr. Mehernaz Mehta, Adv.
- Ms. Yogmaya Agnihotri, Adv.  
Mr. Dharhendra Kr. Sinha, Adv.  
Mr. Atul Jha, Adv.  
Mr. Sandeep Jha, Adv.
305. Dr. Manish Singhvi, Addl. AG  
Mr. Irshad Ahmad, Adv.
306. Mrs. Hemantika Wahi, Adv.  
Mr. Jesal, Adv.

- Mr. S. Panda, Adv.  
Ms. Rojabin Pradhan, Adv.
307. Mr. Praveen Jain, Adv.  
Mr. Akshit Kulshrestha, Adv.  
Ms. Pallavi Mohan, Adv. for  
M/s M.V. Kini., Advs.
- Dr. Manish Singhvi, Addl. AG  
Mr. Irshad Ahmad, Adv.
308. Mr. Shyam Divan, Sr. Adv.  
Mr. Pratap Venugopal, Adv.  
Mr. Varun Singh, Adv.  
Ms. Namrata Sood, Adv.  
Mr. Anuj Sarma, Adv.
- Mr. Ramesh Babu M.R., Adv.  
Mr. Shekhar Prasad Gupta, Adv.  
Mr. Sushrat Jindal, Adv.
309. Mr. Dharhendra Kr. Sinha, Adv.  
Mr. Atul Jha, Adv.  
Mr. Sandeep Jha, Adv.
310. Mr. Ashok Bhan, Sr. Adv.  
Ms. Sunita Rani Singh, Adv.  
Ms. Rashmi Malhotra, Adv.  
Mr. D.S. Mahra, Adv.  
Mr. S.S. Rawal, Adv.
- Mr. Rakesh K. Dwivedi, Sr. Adv.  
Mr. Y. Rajagopala Rao, Adv.  
Mr. Y. Vismal Rao, Adv.
- Mr. Dharhendra Kr. Sinha, Adv.  
Mr. Atul Jha, Adv.  
Mr. Sandeep Jha, Adv.
311. Mr. Shekhar Naphade, Sr. Adv.  
Mr. Chinmoy Khaladha, Adv.  
Mr. Vimal Dave, Adv.
- Mr. Anil Grover, AAG  
Ms. Noopur Singhal, Adv.
- Mr. Sanjay V. Kharde, Adv.  
Ms. Asha Gopalan Nair, Adv.
- Mr. S. Wasim A Qadri, Adv.

Ms. Rashmi Malhotra, Adv.  
Mr. B.K. Prasad, Adv.

Mr. M. Shoeb Alam, Adv.  
Mr. Rauf Rahim, Adv.

Mr. Vikas Bansal, Adv.  
Ms. Vibha Datta Makhija, Adv.

312.

Mr. Sunil Kumar, Sr. Adv.  
Mr. Gaurav Kanth, Adv.  
Mr. Rahul Kumar, Adv.  
Ms. Shivani, Adv.  
Mr. Mohit Kr. Shah, Adv.  
Ms. Shilpi Shah, Adv.

Mr. Gaurav Banerji, ASG  
Mr. S. Wasim A. Qadri, Adv.  
Mr. Zaid Ali, Adv.  
Mr. B.K. Prasad, Adv.

Mr. Manjit Singh, Adv.  
Mr. Kamal Mohan Gupta, Adv.

Mr. Shish Pal Laler, Adv.  
Mr. N.P. Midha, Adv.  
Mr. Balbir Singh Gupta, Adv.

313.

Mr. P.P. Malhotra, ASG  
Mr. T.S. Doabia, Sr. Adv.  
Ms. Kiran Bhardwaj, Adv.  
Mr. B.K. Prasad, Adv.

Mr. R.K. Rathore, Adv.  
Mr. R.S. Nagar, Adv.  
Mr. Harish Kr. Khinchi, Adv.

Ms. Asha G. Nair, Adv.  
Mr. M. Kharati, Adv.  
Mr. D.S. Mahra, Adv.

Ms. Hemantika Wahi, Adv.  
Ms. Pinky Behera, Adv.  
Mr. Jesal, Adv.  
Mr. S. Panda, Adv.  
Mr. Rojalin Pradhan, Adv.

Mr. Raj Panjwani, Sr. Adv.  
Mr. Rahul Choudhary, Adv.  
Mr. Ritwick Dutta, Adv.

Mr. Vijay Panjwani, Adv.

Mr. T.S. Doabia, Sr. Adv.  
 Mr. Sukhbeer Kaur Bajwa, Adv.  
 Mr. R.K. Tanwar, Adv.  
 Mr. R.K. Rathor, Adv.  
 Mr. S.N. Terdal, Adv.

314.

Mr. Mohan Jain, ASG  
 Mr. D.K. Thakur, Adv.  
 Mr. B.K. Prasad, Adv.

Mr. V. Giri, Sr. Adv.  
 Ms. Jayashree Wad, Adv.  
 Mr. Ashish Wad, Adv.  
 Ms. Tamali Wad, Adv.  
 Ms. Kanika Bhutani, Adv. for  
 M/s J.S. Wad & Co.

Mr. Manjit Sindh, Addl. AG  
 Mr. Vivekta Singh, Adv.  
 Mr. Tarjit Singh, Adv.  
 Mr. Kamal Mohan Gupta, Adv.

Mr. V. Pattabhiram, Adv.  
 Mr. Rabin Majumdar, Adv.  
 Mr. Krishna Reddy, Adv.

315.

Mr. Anip Sachthey, Adv.  
 Mr. Mohit Paul, Adv.  
 Ms. Shagun Matta, Adv.

316.

Mr. T.R. Andhyarujina, Sr. Adv.  
 Mr. R. Venkata Ramani, Sr. Adv.  
 A.G. for State of A.P.  
 Mr. G.N. Reddy, Adv.  
 Mr. C. Kannan, Adv.  
 Mr. Ravi Shankar, Adv.

Mr. L. Nageshwar Rao, Sr. Adv.  
 Dr. Rajeev Dhawan, Sr. Adv.  
 Mr. Venkateswar Rao Anumolu, Adv.  
 Mr. Prabhakar Parnam, Adv.

Mr. Gopal Subramaniam, Sr. Adv.  
 Mr. D. Mahesh Babu, Adv.  
 Mr. Mayur R. Shah, Adv.  
 Mr. Amit K. Nain, Adv.

Mr. Vijay Panjwani, Adv.

Mr. T.S. Doabia, Sr. Adv.  
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315.

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 A.G. for State of A.P.  
 Mr. G.N. Reddy, Adv.  
 Mr. C. Kannan, Adv.  
 Mr. Ravi Shankar, Adv.

Mr. L. Nageshwar Rao, Sr. Adv.  
 Dr. Rajeev Dhawan, Sr. Adv.  
 Mr. Venkateswar Rao Anumolu, Adv.  
 Mr. Prabhakar Parnam, Adv.

Mr. Gopal Subramaniam, Sr. Adv.  
 Mr. D. Mahesh Babu, Adv.  
 Mr. Mayur R. Shah, Adv.  
 Mr. Amit K. Nain, Adv.

317.

Mr. Mohan Jain, ASG  
 Mr. D.K. Thakur, Adv.  
 Mr. B.K. Prasad, Adv.

Mr. Rajeev Dhawan, Sr. Adv.  
 Mr. Brijesh Kalappa, Adv.  
 Mr. Gopal Singh, Adv.  
 Ms. Divya Nair, Adv.  
 Mr. N. Ganpathy, Adv.

Mr. Manjit Singh, Addl. AG  
 Mr. Vivekta Singh, Adv.  
 Mr. Tarjit Singh, Adv.  
 Mr. Kamal Mohan Gupta, Adv.

Mr. Shishpal Laler, Adv.  
 Mr. N.P. Midh, Adv.  
 Mr. Balbir Singh Gupta, Adv.

318.

Mr. K.K. Venugopal, Sr. Adv.  
 Mr. K.V. Viswanathan, Sr. Adv.  
 Mr. Y. Rajagopala Rao, Adv.  
 Mr. Y. Vismai Rao, Adv.  
 Mr. Shyam Mohan, Adv.  
 Mr. Hitendra Nath Rath, Adv.

319-320.

Mr. K.V. Viswanathan, Sr. Adv.  
 Mr. Y. Rajagopala Rao, Adv.  
 Mr. Vismai Rao, Adv.  
 Mr. Hitendra Nath Rath, Adv.

MML

Mr. Ravindra Srivastava, Sr. Adv.  
 Mr. T.N. Singh, Adv.  
 Mr. Rajeev Dubey, Adv.  
 Mr. Kamalendra Mishra, Adv.

UPON hearing counsel the Court made the following  
 O R D E R

301. IA Nos. 2530-2531 in WRIT PETITION (CIVIL) NO(s). 202 OF 1995

Mr. P.R. Ramasesh, advocate appears on behalf of  
 respondent No. 6 and wants to file his response to the  
 recommendations of Central Empowered Committee.

Ms. Anita Shenoy, advocate appears on behalf of State of Karnataka and wants to file her response to the recommendations of C.E.C.

The applicant is directed to make available copy of the recommendations of C.E.C. to both the above mentioned learned counsel. They are at liberty to file their respective responses.

List after vacation.

302. I.A.NOs. 3358-3360 in WRIT PETITION (CIVIL) NO(s). 202 OF 1995 WITH I.A.NOs. 3448-3449 IN I.A.NOs. 3358-3360 IN W.P. (C) 202/1995

Perused the affidavit filed on behalf of respondent Nos. 2 to 4 in compliance of this Court's order dated 9<sup>th</sup> April, 2012.

Considering the facts and circumstances of this case, we direct that the operation of M/s Shri Ram Saw Mill by respondent No. 1 shall remain suspended for a period of three months.

The applicant is directed to make available copies of the I.As as well as C.E.C. report to the State as well as first respondent.

List thereafter.

303. I.A.NO. 3402 IN I.A.No. 2378 in 2164 with I.A.No. 3433 in WRIT PETITION (CIVIL) NO(s). 202 OF 1995

Mr. K.K. Venuogopal, learned senior counsel

submits that necessary directions may be issued for removal of the materials dumped at the Gandhamardan forest area, otherwise it will cause huge loss and inconvenience to the petitioner Company as the materials may get damaged due to rains in the area.

Considering the facts and circumstances of this case, we direct the State Government to take steps to sell all the dumped materials from the Gandhamardan forest area and deposit the sale proceeds in a nationalized bank and the amount can be released to the petitioner Company, only after obtaining orders from this Court.

If the M.O.E.F. grants permission under the Forest Conservation Act, then the sale proceeds may be returned to the petitioner Company, subject to rules.

The I.As. are accordingly disposed of.

304. I.A.NOs. 3427-3428 IN I.A.NOs. 1424-1425 IN W.P.(C) 202/1995  
WITH  
W.P.(C) NO. 469/2005

Let the C.E.C. submit its report within a period of four weeks. List thereafter.

305. I.A.NO. 2066 @ CONT. PET. @ NO. 133/2007 IN W.P.(C) 202/1995

After getting reply from M/s Boutique Hotels India Ltd., the State Government may take a final decision and file the same before the Court.

List in July, 2012.

306. I.A.NOs. 3118-3120 IN W.P.(C) NO. 202/1995

Post in the last week of August, 2012.

307. I.A.NOs. 3133 & 3134 IN W.P.(C) NO. 202/1995

Permission sought for is granted to the Corporation subject to the fulfillment of conditions laid down in the the Wild Life (Protection) Act, 1972 and in accordance with Section 18 of the said Act.

The IAs are disposed of accordingly.

308. I.A.NOs. 3051-3053 & 3423 IN W.P.(C) NO. 202/1995

Mr. Ramesh Babu M.R., learned counsel appearing for the State of Kerala assures this Court that the recommendations of the C.E.C. will be implemented by the State within a period of three months from today.

List after vacation.

309. I.A.NOs. 1370-1370A IN I.A.NO. 566/2000 IN W.P.(C) NO. 202/1995

List after vacation along with main I.A.

310. I.A.NO. 1 IN ORIGINAL SUIT NO. 3/2011

Perused the letter.

In view of the request made by learned counsel for the State of Chhattisgarh, four weeks' time is granted for filing reply to the written statements.

List thereafter.

311. I.A.NO. 16 IN W.P.(C) NO. 47/1998

This is an application for seeking permission to establish panther safari at Roha District, Maharashtra.

Learned counsel appearing for the Central Zoo Authority refers to the letter dated 23<sup>rd</sup> December, 2008 granting permission to the said project.

The State of Maharashtra also submits that they have no objection in granting permission sought for, provided the petitioner completes all the statutory formalities.

The I.A. is disposed of accordingly.

312. SLP(C) NO. 12498-12499/2010

Learned counsel appearing for the State seeks time to take instructions.

Post after vacation.

313. PART-HEARD I.A.NO. 100 IN W.P.(C) NO. 337/1995

Arguments remained inconclusive.

List tomorrow.

314. S.L.P.(C) NO. 729-731/2011

List after vacation.

315. I.A.NOs. 3450-3451 IN I.A.NOs. 3297-3299 IN W.P.(C) 202/1995

List tomorrow.

316. S.L.P.(C) NO. 15301-15305/2012  
WITH

SLP(C) ... CC 8881/2012

Permission to file S.L.P. is granted in CC No. 8881/2012.

Issue notice.

In the meantime, the petitioners, if so advised, may apply to the M.O.E.F. for granting sanction for carrying on mining activities even if the lease area is less than five hectares.

The M.O.E.F. is directed that if such application is made by the petitioners, the same may be considered in accordance with law within a period of three weeks from the date of receipt of the application. For this said purpose, the M.O.E.F. is at liberty to depute a competent officer to the State of A.P. or find out various ways and means to deal with the applications so that requests of the petitioners for approval will not be delayed.

The State Government is also at liberty to receive the applications from the existing and prospective lessees who have applied for riverbed quarrying and in stream quarrying and forward them to the M.O.E.F. for necessary permission in accordance with law.

We find no reason to vary the interim order passed by the High Court.

List after vacation.

317. I.A.NOs. 94-95, 96-97, 98-99 & 100-101 IN SLP(C) Nos. 19628-19629/2009
318. S.L.P. (C) No. 15652/2012
319. SLP(C) D.NO. 16030/2012
320. SLP(C) D.NO. 16031/2012
321. SLP(C) D.NO. 15975/2012

Issue notice.

In the meantime, the petitioners, if so advised, may apply to the M.O.E.F. for granting sanction for carrying on mining activities even if the lease area is less than five hectares.

The M.O.E.F. is directed that if such application is made by the petitioners, the same may be considered in accordance with law within a period of three weeks from the date of receipt of the application. For this said purpose, the M.O.E.F. is at liberty to depute a competent officer to the State of A.P. or find out various ways and means to deal with the applications so that request of the petitioners for approval will not be delayed.

The State Government is also at liberty to receive the applications from the existing and prospective lessees who have applied for riverbed quarrying and in stream quarrying and forward them to

the M.O.E.F. for necessary permission in accordance with law.

We find no reason to vary the interim order passed by the High Court.

List after vacation.

MM1 I.A.NO. \_\_\_\_\_ IN I.A.NOs. 12-13 TO 18-19 IN S.L.P.(C) Nos. 19628-19629/2009

List tomorrow.

MM2 SLP(C) D.NO. 16054/2012

List tomorrow.

*red*  
(G. SUDHAKARA RAO)  
COURT MASTER

*ren*  
(RENUKA SADANA)  
COURT MASTER



SEATED IN MY PRESENCE

AI—No. 12449  
 Urgent Fee ; Rs. 5/-  
 Cost function Fee Rs. 2/-  
 No. of Folio 16 Rs. 16/-  
 Total Cost Rs. 31/-  
 Date of Auction 10/11  
 Copy Ready 10/11  
 Date of Delivery 10/11

*Handwritten signature*

Branch Office  
Supreme Court of India

*10/11/12*

*10/11*

7.0 Approval on the Detailed Project Report from the CZA dated 23<sup>rd</sup> Dec 2008



केन्द्रीय चिड़ियाघर प्राधिकरण  
**Central Zoo Authority**

(STATUTORY BODY UNDER THE MINISTRY OF ENVIRONMENT & FORESTS, GOVT OF INDIA)

Bikaner House, Annexe VI,  
Shahjahan Road, New Delhi - 110011  
website : <http://www.cza.nic.in>

**BY REGISTERED POST**

F. No. 20-1/2008-CZA(M)

DATE: 23.12.2008

To

Shri Anirudhha Deshpande  
Director  
M/s. Yashomala Farming & Tourism Pvt. Ltd.  
City Chambers, 917/19 A  
F. C. Road  
Pune 411 004 (Maharashtra)

**Sub:- Establishment of a Panther Safari at Roha, Dist. Raigad, Maharashtra –  
Regarding.**

Sir,

Please refer to your undated application forwarded by the Principal Chief Conservator of Forests (WL) & Chief Wildlife Warden, Government of Maharashtra vide their letter No. Dcsk-23(3)/2007-8/6062, dated 28<sup>th</sup> November, 2007.

The proposal for establishment of Panther Safari at Roha, Dist. Raigad, Maharashtra on an area of 20 hectares has been scrutinized by the Central Zoo Authority and the Authority conveys its approval under Section 38H (1A) of the Wild Life (Protection) Act, 1972 to establish the Panther Safari at Roha, Dist. Raigad, Maharashtra in collaboration with Maharashtra Forest Department and M/s Yashomala Farming & Tourism Private Limited, Pune as per the Memorandum of Understanding signed between dated 7<sup>th</sup> October, 2008 and subject to the prior orders from the Hon'ble Supreme Court of India and the fulfillment of the following conditions:-

- (i) The animals transferred to the Panther Safari shall continue to be the property of Government of Maharashtra and the State Government shall ensure their welfare & health and the scientific management of the Panther Safari through M/s Yashomala Farming and Tourism Private Limited and shall also be responsible for the same. These observations should have also got incorporated in the Memorandum of Understanding.
- (ii) The Panther Safari should have minimum 20 meter wide buffer areas be ensured on either side of Safari.

*Contd.....2/-*

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Phone : 011-23381585, 23073072, 23070376 (EPABX), Fax : 23386012 E-mail : [cza@nic.in](mailto:cza@nic.in)

- (iii) The entire Panther Safari should be surrounded by an external chain-link fence of 2 meters height from ground and atleast 5 meters away from enclosure.
- (iv) The M/s Yashomala Farming & Tourism Pvt. Ltd shall give an undertaking that requisite number of experts of various disciplines including a competent Project Leader, Curator, Biologist, Veterinary Officer would be hired for the execution of the project.
- (v) The M/s Yashomala farming & Tourism Pvt. Ltd. Should ensure that the animal enclosure design and the display area shall be as per the prescribed Rules and guidelines of the Central Zoo Authority.
- (vi) The M/s Yashomala Farming & Tourism Pvt. Ltd shall make provision for necessary funds for creation of the Panther Safari as well as for the future maintenance of the establishment on professional grounds.
- (vii) The M/s Yashomala Farming & Tourism Pvt. Ltd should ensure free of cost supply of potable water and the disposal of garbage from the Panther Safari at an appropriate place.
- (viii) The visitors should be allowed on foot only, in case, the authorities are planning the visitors movement by using a vehicle, the minimum area of the proposed safari be kept at 20 hectares as mandatory.
- (ix) It is desired that the proposed Panther Safari at Roha should support the Leopard rescue and rehabilitation efforts of the Forest Department of Maharashtra and should establish a interpretation centre for creating awareness on biodiversity conservation.
- (x) Once the Panther Safari is ready for operation, it shall be opened formally after getting prior recognition from the Central Zoo Authority under Section 38H of the Wild Life (Protection) Act, 1972.

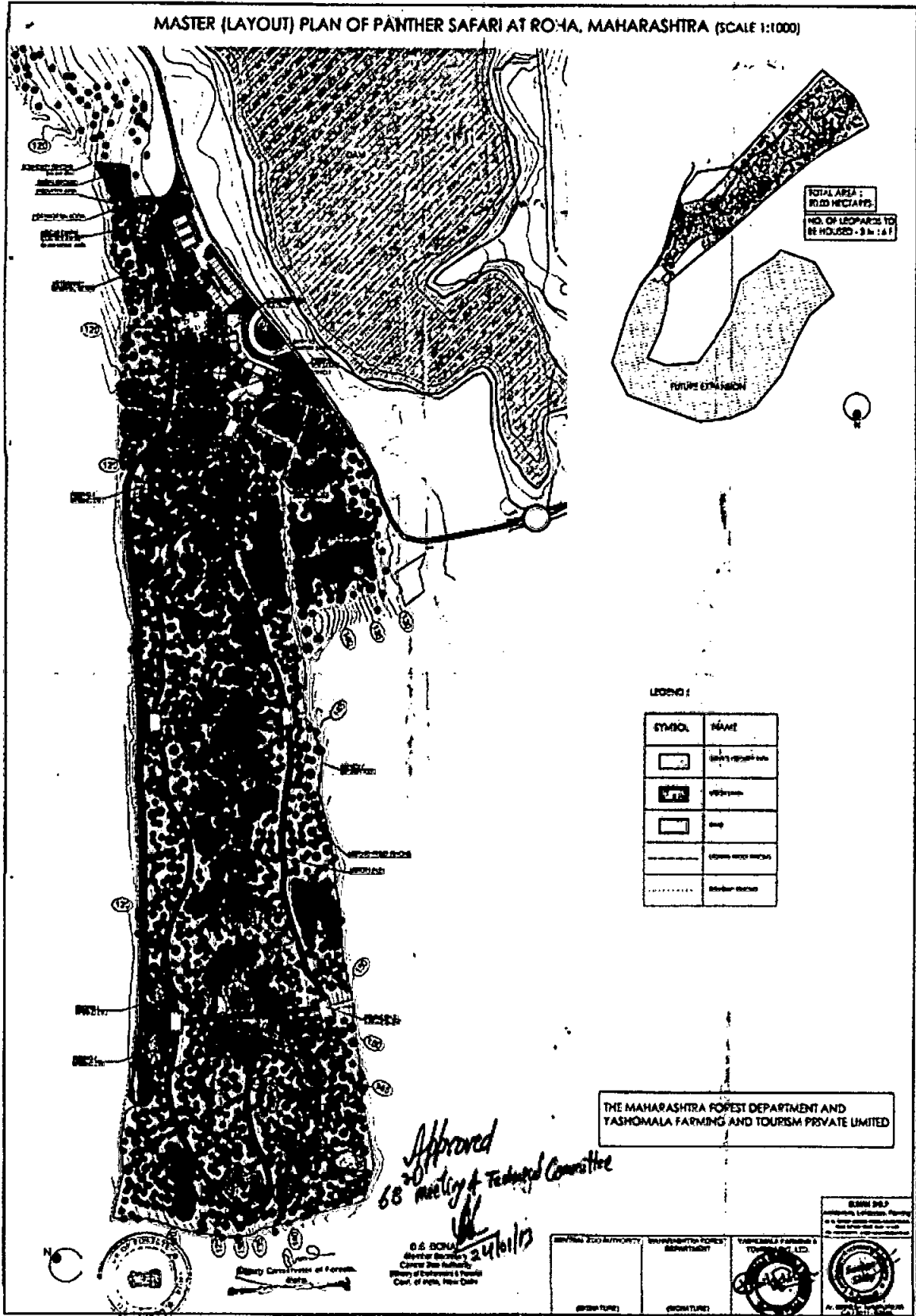
You are requested to submit the detailed Master Plan for the long term development of the Panther Safari for the approval of the Central Zoo Authority after obtaining the orders from Hon'ble Supreme Court of India and before starting the work on the proposed Safari.

Yours faithfully,

B.R.

(B. R. Sharma)  
Member Secretary

8.0 Approval from the CZA on the Master Layout Plan



# Yashomala Farming & Tourism Pvt. Ltd.

CIN: U01122PN1989PTC054431

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Head Office: City Chambers, 917/19a, F. C. Road, Pune, Pin-411004, Tel.: +91 20 25654555, Fax +91 20 25657555  
Site: G No 154, Village Tareghar-Keladwadi, Tahsil Roha, District Raigad, Pin-402109, Tel.: +91 9767461319  
[www.yashomala.com](http://www.yashomala.com), [info@yashomala.com](mailto:info@yashomala.com)

# Yashomala Farming & Tourism Pvt. Ltd.

CIN: U01122PN1989PTC054431

## 9.0 Undertaking

To,  
The Member Secretary,  
Central Zoo Authority,  
New Delhi.

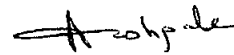
### UNDERTAKING

This is hereby to confirm as below-

1. The animals transferred to the Panther Safari shall continue to be the property of the Government of Maharashtra and the state Government shall ensure their welfare & health and scientific management of the Panther Safari through M/s Yashomala Farming and Tourism Pvt. Ltd. and shall also be responsible for the same. Document for requesting the inclusion of the said clause in the Memorandum of Understanding shall be sent to the office of the PCCF Nagpur for the authorization.
2. A land on East, West and South of Safari is a Government Forest Land. The application shall be made to the state government requesting the state government to issue an order that the 20 meter wide land from the boundary of safari to be maintained as a buffer. Towards North, 20 meter wide land will be maintained as buffer, indicated by fence line, out of the company owned land, as indicated on the 'Master Layout Plan' dated 05/05/2016.
3. The entire Panther Safari will be surrounded by an external chain-link fence of 2 meters height from ground and 5 meters away from enclosure as indicated on the 'Master Layout Plan' dated 05/05/2016.
4. The requisite number of experts of various disciplines including a competent Project Leader, Curator, Biologist, Veterinary Officer would be hired for the execution of the project.
5. It is ensured that the animal enclosure design and the display area is as per the prescribed rules and guidelines of the Central Zoo Authority.
6. A provision for necessary funds will be made for creation of Panther Safari as well as for the future maintenance of the establishment on professional grounds.
7. It is ensured that the free of cost supply of potable water and the disposal of garbage from the Panther Safari is made at an appropriate place.
8. As the proponent is planning the visitors movement by using a vehicle, the minimum area of the proposed safari will be kept as at 20 hectares as mandatory.
9. The proposed Panther Safari at Roha includes the leopard rescue and rehabilitation efforts of the Forest Department of Maharashtra and also includes an interpretation centre for creating awareness on biodiversity as an integral part of the proposal as indicated on the 'Master Layout Plan' dated 05/05/2016.
10. Once the Panther Safari is ready for operation, it will be opened formally only after getting prior recognition from Central Zoo Authority under Section 38H of the Wild Life (Protection) Act, 1972.
11. As the 20 ha area will be used for establishment of Panther Safari, the details on the area available for creating Interpretation centre, Public booth telephone, Restaurant, Drinking water point, Ticket window, Toilet, Veterinary hospital etc. are indicated on the 'Master Layout Plan' dated 05/05/2016 and the other supporting drawings along with, dated 05/05/2016.

Place: Pune

Dated: 10-05-2016



Aniruddha Deshpande

Director