



ANNUAL REPORT

2021-22



NANDANVAN SAFARI AND ZOO

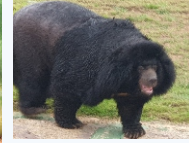
Department of Forest and Climate Change, Govt. of Chhattisgarh
Nava Raipur, Chhattisgarh



*The greatness of a nation can be judged by the way its animals are treated
- Mahatma Gandhi*

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Report of the Director

It is my privilege to present the annual report for 2021-22 of one of the premier man made safari and zoo of India.

Nandanvan Zoo and Safari is in the forefront of conservation of the ex-situ population of various species of endangered animals and their habitat. It is playing a big role in sensitising the public about wildlife and its importance..

The increase in the number of species from eighteen to twenty-eight through animal exchange programme from other zoos of the country not only demonstrates the commitment of the management to enrich the animal collection but also shows its commitment to ex-situ conservation and visitor education. The successful translocation of 87 spotted deer to Guru Ghasidas National Park, Koriya, Chhattisgarh is a feather in the cap and highlights the contribution of the Zoo to augment the prey base..

During the initial months of the year, the visitor count has reduced drastically due to covid restrictions, but things got better after the restrictions were lifted. Amenities to the visitors like garden with children's play area, kiosks, drinking water facilities, toilets, sit-outs etc. have been provided to make the visit to the zoo a more pleasant experience. Bilingual signages packed with interesting information about the animals which encourage the visitors to know more about the exhibited species have been put in place at vantage location which helps in creating awareness and education about the animals..

The other focus area has been to provide healthcare to the 574 animals housed in Nandanvan zoo and safari which was accomplished by a competent team of Vets.

I sincerely thank the Principal Chief Conservator of Forest (Wildlife and Biodiversity) cum Chief Wildlife Warden Shri P V Narsinga Rao IFS for his constant support and guidance. I am grateful to Addl. PCCF (WL) and Chief Conservator of Forest (WL) for their valuable support. I do appreciate all technical staff, zookeepers and other staff for their commitment and dedication towards the growth of Nandanvan zoo and safari.

Mrs. Mercy Bella, IFS
Director- Nandanvan safari and zoo
Nava Raipur



History of Nandanvan

The Nandanvan mini Zoo Raipur established in 1979, was an endeavour in the form of a rescue shelter for animals in distress. The zoo was a recreational hub that served as an educational centre as well as shelter for rescued animals. In the year 2008, CZA (Central Zoo Authority) granted the status of mini zoo to Nandanvan. Since then, it has been the paramount attraction for the people of Raipur for entertainment and education.

After the formation of Chhattisgarh and the development of a new capital city, Nava Raipur, the state government decided to establish Nandanvan and Safari(Relocation of Nandanvan Zoo Raipur). Consequently Naya Raipur Development Authority (NRDA), allotted an area of 320.15 Ha. for the establishment of Nandanvan and Safari(Relocation of Nandanvan Zoo Raipur).

It was decided to shift the Nandanvan Mini Zoo to Nava Raipur and the permission of CZA was sought.

Master layout plan of the relocation of Nandanvan Zoo Raipur to Naya Raipur was approved by the CZA (letter no.Fno.19160/93CZA(149)(M) dated 29.08.2012). Scrutiny of the Master Plan of Nandanvan Zoo Naya Raipur was done by the expert group on Zoo designing of the CZA in its 56th meeting held on 8th Oct 2014 and the same was placed before the Technical committee for approval in the 72th meeting dated 12th Dec 2014. The Technical committee of the CZA approved the master plan of the Nandanvan Zoo at Naya Raipur (letter no.Fno.19-160/93-CZA(147) vol.116474 dated 31.12.2014).

After the approval of the Master Plan, the implementation and execution of works started at the site. Subsequent to the development of Herbivore safari, Bear Safari and Tiger Safari the animals from the old Nandanvan Zoo Raipur were shifted to Naya Raipur with due diligence and care. The Safari was inaugurated by the Honourable Prime Minister of India Shri Narendra Modi on 1st Nov 2016 which commemorated the state's 16th formation day.

The work for the establishment of zoo was started in the year 2017 with the development of 10 enclosures. During the wildlife week of 2019, the Honourable Chief Minister of Chhattisgarh Shri Bhupesh Baghel inaugurated the Nandanvan zoo on 5th October 2019. Presently there are 28 enclosures housing various animals. Nandanvan Jungle Safari & Zoo is considered as one of the important tourist attractions of Chhattisgarh.



Vision

- Act as a research centre, education and Awareness hub for the propagation and dissemination of information about Wildlife, Ecology and Environment to the people in general and students in particular.
- To develop it as a centre of excellence in the breeding and conservation of endangered animals especially the wild Buffalo of the state.
- To provide a serene and eco-friendly place to enjoy the nature in its full form.
- To make the Nandanvan-Jungle Safari a major tourist attraction of not only Chhattisgarh but a tourist destination for the adjoining states of central India.

Mission

- To house the animals in near natural conditions for giving them a feel of living in the wild.
- To help understand the ecological linkage with the life supporting process of nature and the need to keep them intact that by adopting lifestyle which is in harmony with nature.
- To develop as centre of excellence for Research on wild animals and conservation breeding of endangered wild animal species of the region.
- To function as a rescue centre for orphaned, injured and the rescued animals from the wild and subsequent rehabilitation.
- To develop Nandanvan Jungle Safari as a major tourist attraction and a focal point for Entertainment, Recreation, Education and Awareness to the visitors of Chhattisgarh in particular and adjoining state in general.

Objectives

- To provide and facilitate research on animals in captivity to help in conservation efforts.
- To provide housing and upkeep to the orphaned animals of endangered species rescued from the wild.
- To assist in conservation of the Ex-situ population of various species of endangered animals and their habitat by sensitizing the people.
- Involve in programs which assist the survival of wild populations.
- Conservation and breeding of endangered wild species.
- To increase the awareness, knowledge and understanding of visitors about animals, the environment and conservation.
- To provide ethical and healthy recreation, enjoyment and enrichment to the visitors.

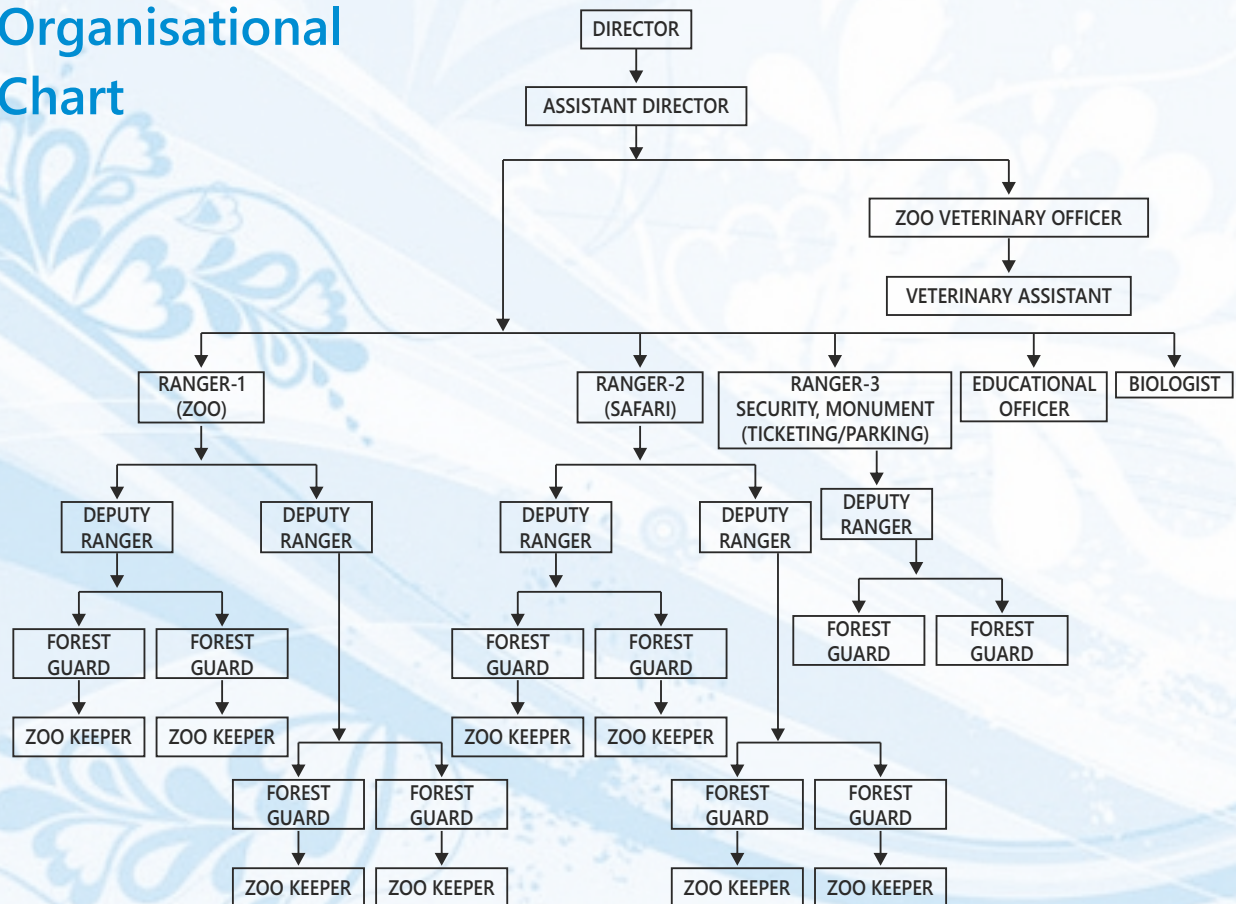
About us



Human Resources Administrative set up and Present status

S.No.	Designation	Sanctioned	Working	Vacant	Additional
1	DFO	01	01	00	00
2	ACF	00	01	00	01
3	Superintendent	00	01	00	01
4	Veterinary Doc	01	02	00	01
5	Ranger	02	02	00	01
6	Dy. Ranger	02	01	00	00
7	Forester	02	06	00	04
8	Forest Guard	06	19	00	13
9	Compounder	01	00	01	00
10	Wildlife Asst.	04	00	04	00
11	Forest Watchman	00	20	00	20
12	Head Clerk	00	01	00	01
13	Accountant	00	03	00	03
14	Asst. Grade 2	01	02	00	01
15	Asst. Grade 3	02	04	00	02
16	Peon	02	02	00	00
		24	67		

Organisational Chart



Statement of monthly Expenditure from April 2021- March 2022

State Budget

S.No.	Month	Feed	Development work	Maintenance of vehicle	Labour/other	Total
1	Apr-21	13722393.00	0	0	1580090.00	15302483.00
2	May-21	0	0	0	5371295.00	5371295.00
3	Jun-21	5377341.00	2523229.00	0	1266372.00	9166942.00
4	Jul-21	0	7038422.00	0	5244590.00	12283012.00
5	Aug-21	7325888.00	1472289.00	0	837446.00	9635623.00
6	Sep-21	0	6523956.00	0	3883436.00	10407392.00
7	Oct-21	5016927.00	3881952.00	0	4699090.00	13597969.00
8	Nov-21	107263.00	2024924.00	0	3002152.00	5134339.00
9	Dec-21	2243666.00	5969771.00	1074525.00	714175.00	10002137.00
10	Jan-22	10304625.00	18395931.00	0	1108521.00	29809077.00
11	Feb-22	3724697.00	29565053.00	0	2957456.00	36247206.00
12	Mar-22	0	27565121.00	0	3587413.00	31152534.00
Total		47822800.00	104960648.00	1074525.00	34252036.00	188110009.00

From Gatemoney

S.No.	Month	Petrol / Diesel	Development work	Maintenance of vehicle	Labour/other	Total
1	Apr-21	0	0	0	47400.00	47400.00
2	May-21	0	0	0	0	0
3	Jun-21	1030335.00	27000.00	0	0	1057335.00
4	Jul-21	0	0	46195.00	28920.00	75115.00
5	Aug-21	1112226.00	0	0	28920.00	1141146.00
6	Sep-21	0	0	0	2425249.00	2425249.00
7	Oct-21	895790.00	0	0	525850.00	1421640.00
8	Nov-21	0	0	0	68060.00	68060.00
9	Dec-21	471175.00	675130.00	0	2144678.00	3290983.00
10	Jan-22	1148150.00	654169.00	222674.00	1906170.00	3931163.00
11	Feb-22	541109.00	0	0	0	541109.00
12	Mar-22	854387.00	0	0	304286.00	1158673.00
Total		6053172.00	1356299.00	268869.00	7479533.00	15157873.00

Statement of monthly Income from April 2021- March 2022

S.No.	Month	Entry Ticket (Rs.)	Parking Ticket (Rs.)	Boating (Rs.)	Total (Rs.)
1	Apr-21	0.00	0.00	0.00	0.00
2	May-21	0.00	0.00	0.00	0.00
3	Jun-21	48900.00	0.00	1800.00	50700.00
4	Jul-21	1306225.00	158950.00	61660.00	1526835.00
5	Aug-21	1548525.00	200600.00	76740.00	1825865.00
6	Sep-21	1362800.00	160650.00	60760.00	1584210.00
7	Oct-21	1646650.00	208850.00	74730.00	1930230.00
8	Nov-21	1649425.00	187700.00	86800.00	1923925.00
9	Dec-21	2073550.00	137000.00	100900.00	2311450.00
10	Jan-22	1356925.00	90950.00	68660.00	1516535.00
11	Feb-22	1144825.00	150650.00	55810.00	1351285.00
12	Mar-22	1235700.00	116650.00	48150.00	1400500.00
Total		13373525.00	1412000.00	636010.00	15421535.00

Daily Feeding Schedule of Animals

Lion			
01	Goat meat	09 kg.	Except Sunday (01 March to 30 October)
02	On winter	10 kg.	(01 November to 28 February)
Lion Cubs			
01	Goat meat	02 kg.	Except Sunday (01 March to 30 October)
02	Chicken	1.500 kg.	
03	On winter	2.500 kg.	(01 November to 28 February)
Leopard			
01	Goat meat	04 kg.	Except Sunday (01 March to 30 October)
02	On winter	05 kg.	(01 November to 28 February)
Leopard Cubs			
01	Goat meat	500 gm.	-
02	Chicken	750 gm.	Egg, Milk, Sup
Tiger			
01	Goat meat	09 kg.	Except Sunday (01 March to 30 October)
02	On winter	10 kg.	(01 November to 28 February)
Monitor lizards			
01	Goat meat (mince)	100 gm.	-
02	Chicken chick	01 nos.	-
03	Boiled egg	02 nos.	-
Crocodile Marsh			
01	Fish 6" x 9"	02 kg.	2 days a week (Except Sunday)
Ghadiyal			
01	Fish 6" x 9"	02 kg.	2 days a week (Except Sunday)
Snake			
01	Chicken	01 nos.	1 day in a month
Civet common plam			
01	Chicken (mince)	250 gm.	Every day
02	Egg	01 nos.	Every day
Bear and Himalayan bear			
01	Milk	03 liter.	-
02	Rice	01 kg.	4 days a week (Mon./Wed./Fri./Sun.)
03	Porridge (Boiled)	01 kg.	3 days a week (Tue./Thu./Sat.)
04	Honey	200 gm.	2 days a week (3 days to Himalayan bear)
05	Jaggery	01 kg.	Kheer in the span of a day

06	Sugarcane	02 nos.	-
07	Seasonal Vegetables & fruit	03 kg.	-
08	Fish	02 kg.	3 days a week
Spotted deer			
01	Animal feed concentrate	01 kg.	-
02	Choker	01 kg.	-
03	Black gram falla	01 kg.	-
04	Black gram	300 gm.	-
05	Oil less cake	250 gm.	-
06	Wheat bran & rice bran	03 kg.	-
07	Green Gras	06 kg.	-
08	Mahua	100 gm.	-
09	salt	10 gm.	-
Sambar Deer			
01	Animal feed concentrate	01 kg.	-
02	Choker	03 kg.	-
03	Black gram falla	01 kg.	-
04	Black gram	01 kg.	-
05	Oil less cake	250 gm.	-
06	Wheat bran & rice bran	04 kg.	-
07	Green Gras	10 kg.	-
08	Mahua	100 gm.	-
09	salt	10 gm.	-
Blue bull			
01	Animal feed concentrate	1.500 kg.	-
02	Choker	03 kg.	-
03	Black gram falla	1.500 kg.	-
04	Black gram	01 kg.	-
05	Oil less cake	250 gm.	-
06	Wheat bran & rice bran	05 kg.	-
07	Green Gras	10 kg.	-
08	Mahua	100 gm.	-
09	salt	10 gm.	-
Chausingha			
01	Animal feed concentrate	250 gm.	-
02	Choker	250 gm.	-
03	Black gram falla	250 gm.	-
04	Black gram	250 gm.	-
05	Oil less cake	250 gm.	-
06	Wheat bran & rice bran	500 gm.	-

07	Green Grass	02 kg.	-
08	Mahua	50 gm.	-
09	salt	10 gm.	-
Barking deer			
01	Animal feed concentrate	250 gm.	-
02	Choker	250 gm.	-
03	Black gram falla	250 gm.	-
04	Black gram	250 gm.	-
05	Oil less cake	250 gm.	-
06	Wheat bran & rice bran	500 kg.	-
07	Green Gras	02 kg.	-
08	Mahua	50 gm.	-
09	salt	10 gm.	-
Blackbuck			
01	Animal feed concentrate	01 kg.	-
02	Choker	01 kg.	-
03	Black gram falla	01 kg.	-
04	Black gram	300 gm.	-
05	Oil less cake	250 gm.	-
06	Wheat bran & rice bran	03 gm.	-
07	Green Grass	06 kg.	-
08	Mahua	100 gm.	-
09	salt	10 gm.	-
Peafowl			
01	Green vegetables	100 gm.	-
02	Poultry feed	200 gm.	-
03	Black gram	0.25 gm.	-
04	Boiled egg	01 nos.	-
05	Onion	50 gm.	-
Duck			
01	Poultry feed	750 gm.	-
Hippopotamus			
01	Black gram	08 kg.	-
02	Animal feed concentrate	03 kg.	-
03	Choker	08 kg.	-
04	Green Grass	60 kg.	-
05	Seasonal Vegetables	08 kg	-
06	Banana	12 nos.	-
07	Agrimim powder	50 gm.	-
08	Salt	25 gm.	-

Wild buffalo			
01	Animal feed concentrate	02 kg.	-
02	Choker	02 kg.	-
03	Black gram falla	02 kg.	-
04	Black gram	02 kg.	-
05	Oil less cake	02 kg.	-
06	Wheat bran & rice bran	10 kg.	-
07	Green Grass	30 kg.	-
08	Salt	20 gm.	-
Gaur			
01	Animal feed concentrate	02 kg.	-
02	Choker	01 kg.	-
03	Black gram falla	01 kg.	-
04	Black gram	02 kg.	-
05	Oil less cake	01 kg.	-
06	Wheat bran & rice bran	10 kg.	-
07	Green Grass	25 kg.	-
08	salt	25 gm.	-
Indian Star Tortoise			
01	Black gram	20 gm.	-
02	Green vegetables	100 gm.	-
Porcupine			
01	Black gram	250 gm.	-
02	Green vegetables	250 gm.	-
Langur			
01	Black gram	400 gm.	-
02	Green vegetables	100 gm.	-
03	Rice	100 gm.	-
Parrots			
01	Black gram	2.500 kg.	-
02	Green vegetables	1.500 kg.	Finely chopped
03	Seasonal fruit	1.500 kg.	Finely chopped
04	Green chilli.	500 gm.	-
05	Sunflower seeds	01 gm.	-

Smooth coated Indian otter			
01	Fish 4" x 5"	1.700 to 02 kg	Per otter per day
Fox			
01	Goat meat	500 gm.	Except Sunday (01 March to 30 October)
02	On winter	700 gm.	(01 November to 28 February)
Jackal			
01	Goat meat	02 kg.	Except Sunday (01 March to 30 October)
02	On winter	2.5 kg.	(01 November to 28 February)
Hyenas			
01	Goat meat	03 kg.	Except Sunday (01 March to 30 October)
02	On winter	04 kg.	(01 November to 28 February)
Wolf			
01	Chicken	2-500 kg.	Except Sunday (01 March to 30 October)
02	On winter	3.750 kg.	(01 November to 28 February)
Chinkara			
01	Animal feed concentrate	500 gm.	Every day
02	Chickpeas Split	50 gm.	Every day
03	Green Grass	05 kg.	Every day
04	Carrot/Cucumber/Muskmelon (Kharbuz)	02 kg.	Every day
Wild Dog			
01	Chicken	250 gm.	Except Sunday (01 March to 30 October)
	Goat meat	02 kg.	
02	On winter Chicken	500 gm.	(01 November to 28 February)
	Goat meat	2.250 kg.	



Slaughter house



Feeding the animal



Store house

De-Worming Schedule of Animals

S.No.	Species	Drug used	Month
1	Royal Bengal Tiger	Fenbendazole	March, July, October, January
		Prazisam plus	
2	Asiatic Lion	Fenbendazole	March, July, October, January
		Prazisam plus	
3	Leopard	Fenbendazole	March, July, October, January
		Prazisam plus	
4	White Tiger	Fenbendazole Prazisam plus	March, July, October, January
5	Sloth bear	Fenbendazole	March, July, September, December, April
6	Himalayan bear	Fenbendazole	October, January, April
7	Herbivores	Noworm plus	February, June, October

Disinfection Schedule of Enclosures

S.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Carnivore	Night House disinfection	Sodium hypochlorite solution	Twice in week
			Phenyl solution	Daily
			Sprinkling of Turmeric powder	Daily
		Footbaths	Potassium Permagnate solution 10%	Daily
		Enclosures	Sprinkling of lime and bleaching outside of the enclosure	In every 15 days
2	Herbivore	Night House disinfection	Sodium hypochlorite solution	Twice in week
			Phenyl solution	Daily
			Sprinkling of Turmeric powder	Daily
		Footbaths	Potassium Permagnate solution 10%	Daily
		Enclosures	Sprinkling of lime and bleaching outside of the enclosure	In every 15 days



Jungle Safari at a Glance

Nandanvan zoo and safari, Nava Raipur is spreaded over 320.15ha in Sector-39, which is adjacent to the Khandwa dam, boasts of vibrant forests consisting of Anjan, Khair, Amla, Ber and bhel. There are four safaris namely, Herbivore Safari, Bear Safari, Tiger Safari and Lion Safari. The animals in safari enjoy the natural habitat and move in freedom. The safaris are all well protected and safety standards as per guidelines are in place for not only the visitors but also for the animals.



Herbivore Safari

The safari spread over an area of 75 acres of lush green and beautiful landscape is home to Sambhar, Spotted deer, Nilgai and Blackbuck.



Bear Safari

Dotted with flora Mahua, Sterculia, Bargad, Peepal, Bamboo, Ber, anjan etc, the Bear enjoy a near natural habitat to roam freely with freedom over 50 acres of rolling landscape.



Tiger Safari

The Majestic King of the Jungle lords over an area of 50 acres of exclusive terrain made to resemble the true tiger terrain.



Lion Safari

The lions are often found to sleep and walk lazily in the area of about 50 acres.

Nandanvan Zoological Park

- Nandanvan Zoological Park spread over an area of 50ha is designed to house 37 species of mammals and reptiles, out of which 28 enclosures are constructed and are functional.
- The enclosures designed are environment friendly and are more or less a true replication of the natural habitat of the animals being housed here to give maximum comfort and natural feel to them.
- A web of road network of 2.2kms making its way through the green landscape facilitates the visitors to visit and enjoy all the exhibits.
- Visitor's facilities like sitouts, drinking water, washroom have been provided appropriately.



White Tiger Enclosure

The white tiger enclosure ensures to offer a naturalistic habitat in an expanse of 2550 sqm to give a close connect with the forest ecosystem for animals in Nandanvan zoo.



Asiatic Lion Enclosure

Constructed in an area of 2550 sqm the lion enclosure is designed in a state of art fashion with a focus on harmonious environment to keep the animals healthy and make them feel at home.



Royal Bengal Tiger Enclosure

The Royal Bengal Tiger enclosure of 2430 sqm area, rich in trees with a water body made out of natural boulders, dead tree logs allows the animals to enjoy their natural habitat.



Panther Enclosure

Open top Panther enclosure of 2070 sqm area with toughened glass viewing makes it easy for the visitors to observe this shy animal closer than ever.



Himalayan Bear Enclosure

The Himalayan Bear Enclosure is in an area of 1730 sqm provides the maximum possible space for the inmates.



Smooth Coated Otter Enclosure

The smooth coated otter enclosure is the most mesmerizing enclosure in the zoo with an area of 1050 sqm encouraging the animals to go about daily activity that satisfies its behavioural needs.



Hippopotamus Enclosure

The Enclosure in an area of 3220 sqm provided with a well equipped kraal, feeding platform and the water body is large enough to keep them cool during summer season.



Gharial Enclosure

A pair of Gharial shares an area of 800 sqm, comprising of water body, basking area with bamboo clumps allowing the residents to fully use the captive environments.



Star Tortoise Enclosure

The tortoise enclosure in an area of 70 sqm accommodates more than a dozen tortoises for free movement and reproductive activity.



Crocodile Enclosure

Crocodile exhibit in an area of 10850 sqm provided with enough space for comfortable movement on both land and in water.



Monitor Lizard Enclosure

RCC toughened glass viewing gallery is provided to see this mystic reptile.



Black Buck Enclosure

The enclosure of 2070 sqm area is designed and developed in such a way to facilitate the behavioural expression of the residents.



Hyena Enclosure

The hyena enclosure in an area of 860sqm is provided with a high standard of accommodation for the inmates as well as appropriate display to the public.



Jackal Enclosure

The jackal Enclosure in an area of 860sqm offers the animal to exhibit its natural behavior.



Fox Enclosure

The fox enclosure in an area of 860 sqm provided with habitat enrichment for the residents to facilitate their natural species specific behaviours.



Blue Bull Enclosure

The enclosure is of 2070 sqm to reflect the natural habitat of the antelope.



Barking Deer Enclosure

The enclosure in an area of 2010 sqm provides the inmates a feel of being in their natural habitat.



Four Horned Antelope Enclosure

The enclosure of 2070 sqm area provides the physical, biological and social requirements of the animals housed to reflect their natural habitat.



Wild Dog Enclosure

The wild dog enclosure in an area of 770 sqm. is provided with naturalistic den for the inmates. Trees that existed prior to construction were retained to provide shade for the animals.



Wolf Enclosure

The wolf enclosure is of 770 sqm. with day kraal, night shelter, paddock area and viewers gallery. The exhibit allows the visitors to view the animals without any visual barrier which gives the feeling of being with the nature.



Gaur Enclosure

The gaur enclosure is in an area of 3710 sqm. with adequate water pool and wallowing points for the animals.



Spotted Deer Enclosure

The spotted deer enclosure is in an area of 3120 sqm. with feeding cubicles camouflaged with vegetation.



Sambar Enclosure

The sambar enclosure is in an area of 2420 sqm. with all the adequate arrangements for the animals as per weather conditions.



Common Palm Civet Enclosure

The common palm civet enclosure is in an area of 460 sqm. with top cover chain linked fence and toughened glass viewing gallery.



Pangolin Enclosure

The pangolin enclosure is in an are of 220 sqm. with RCC structures on three sides with day kraal, paddock area and glass barrier viewing for the visitors.



Porcupine Enclosure

The porcupine enclosure is in an area of 200 sqm. with night shelters, day kraal and paddock area. Visitors can view these animals through transparent toughened glass.



Snake Park

The snake park is in an area of 970 sqm. with 10 enclosures of different species of snakes. This includes both poisonous as well as non-poisonous snakes. The visitors can view different species of snakes through transparent toughened glass barrier.



Chinkara Enclosure

The chinkara enclosure is in an area of 2550 sqm. with enough enrichments for the animals to be housed.

Entry Fee

S.No.	Type	Details	Charges
1	Safari Non AC	Indian Adult	100
		Indian Child (12-18)	50
		Indian Child below 12	0
		Foreign Adult	500
		Foreign Child	400
2	Safari AC	Indian Adult	150
		Indian Child (12-18)	100
		Indian Child below 12	0
		Foreign Adult	1000
		Foreign Child	800
3	Zoo	Indian Adult	50
		Indian Child (12-18)	25
		Indian Child below 12	0
		Foreign Adult	500
		Foreign Child	400
4	Photography	Still/Digital Camera	100
		Handycam/Video Camera Normal	500
		Video Camera Commercial	1000

Zone Wise Area

Name of Zone	Area in Hectare
Water Zone	52.52
Monument Zone	0.92
Herbivorous Safari	30.89
Bear safari	20.03
Tiger safari	20.04
Lion Safari	20.01
Safari management Zone	10.75
Safari water supply Zone	0.30
Zoo zone	50.00
Water course	0.40
Fodder production area	5.20
Administrative Zone	8.75
Ticket and waiting Zone	4.75
Garden Park and Food zone	7.67
Service Road	8.60
Green Belt	11.50
Wilderness Area	67.82
Total Area	320.15

Work in Progress - 2021-22

During the year 2021-2022, the pending construction works of the ten new enclosures namely, Wild dog, Wolf, Gaur, Spotted deer, Sambhar, Chinkara, Common palm civet, Pangolin, Snake park and Porcupine have been completed. The enclosures are well-designed and constructed in such a way that exhibits have enough space and a possibility for the animals to express their natural behavior. So the Enclosures are made naturalistic with standoff barrier and the space between the barrier and the standoff are covered with shrubs which makes it more effective and natural. In addition to this, mongoose enclosure, open butterfly garden, fruit orchard, 10000 sq. m. Garden area for visitors and Interpretation centre have been established. Underground water distribution pipelines are installed in all the safaris and rescue centre connecting the main water tank with the khandwa reservoir which ensures water supply throughout the year.

Conservation and Breeding Program of the Zoo

For conservation and breeding of the Chhattisgarh state animal Water Buffalo, a modern breeding centre is established in 2.5 ha area in Jungle Safari. A clone named Deepasha is kept at this centre and the process of breeding programme through artificial insemination method is going on with the collaboration of CCMB, Hyderabad.

Veterinary care

Veterinarians plays a key role in animal health and assessing animals health conditions including deworming , other preventive measures and also assessment of the adequacy of the feed being supplied to the animals. Main responsibility of the vet is to take steps for timely restraining and treatment of sick animals. Two vets are posted at Nandanvan safari and zoo which helps the management to ensure high standards of veterinary care to all the housed animals.



Health and safety

Health and safety are extremely important an aspect of zoo management. It is essential that steps are taken to ensure the health of the staff and animals. Good hygiene and preventive measures are in place to prevent zoonotic diseases. On 23rd May, 2021 health check-up was carried out for all the employees of zoo and safari.

Events and happenings

Celebration of wildlife week, tiger day, environment day, zoo day etc. have been conducted in zoo by involving the nearby school children and visitors with painting and drawing competition, essay writing competition and on the spot quiz competition.

Azadi ka Amrit Mahotsav with theme of Conservation to co-existence: The people's connect and the species in focus as wild water buffalo was celebrated from 21st June to 27th June, 2021.

Translocation of 87 spotted deers from Nandanvan zoo to Guru Ghasidas National Park was done successfully on 11th March, 2022 after getting prior permission from CZA.

Animal acquisition/transfer/exchange during the year

S.No.	Species	Number (M:F)	From Which Zoo
1	Fox	1:2	Kanan Pendari, Bilaspur
2	Barking deer	3:3	Kanan Pendari, Bilaspur
3	Wild dog	1:1	Sri Chamarajendra Zoological Gardens, Mysore
4	Chinkara	2:2	Nahargarh Biological Park, Jaipur, Rajasthan



Rescue centre



To ensure care for the injured and sick animals, a rescue centre is established near the hospital of safari with an area of 2 hectare has housing enclosures for large/small carnivores, Large/small herbivores, Bear, Reptiles, monkey, and birds. The rescue centre was constructed under camp fund during the year 2018-19 and is now functional where the rescued animals are brought in from

different parts of Chhattisgarh state. The animal brought here are treated and rehabilitated back to the wild within 30 days of treatment and the animals which need lifetime care are kept in the rescue centre.

Seasonal Special arrangements for upkeep of animals



Animals are provided with enough water to stay hydrated



Eco-friendly thatching and water tanks provided at herbivore safari



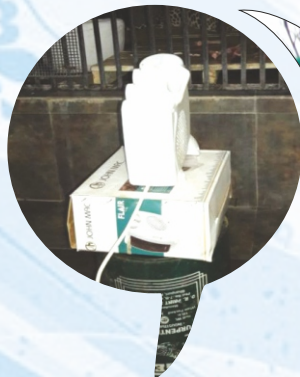
Cozy bedding made from paddy straw



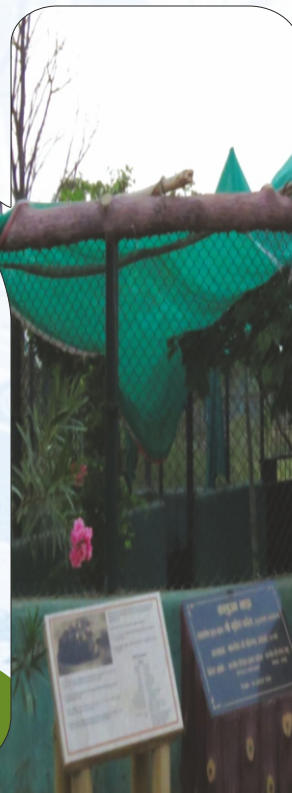
Eco friendly thatching to provide shelter from sun and rain



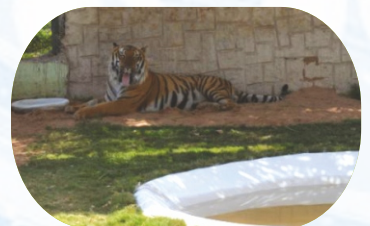
Small rain guns are installed inside the herbivore safari and water is sprayed during the summer season to keep the enclosure moist and cool



Blower used during winter season to keep the animals warm



Green shade net placed over the roof of the paddock area helps animals to beat the heat during summer



Water trough in day kraal

Recognition of Zoo Rules, 2009 (RZR) and mid-term evaluation of the zoo

S.No.	Norm No. under RZR	Condition	Time period to comply
1. General requirements :			
1	10.1(4)	Close to reception, wall is broken . It is temporary fenced. It should be raised with plastered wall to avert the chance of intruder.	Done
2	10.1(7)	Effective means and methods of waste management through reducing reusing and recycling should be explored and adopted by the zoo.	Vermicompost Shade has been constructed and the work management process has been started.
3	10.1(9)	Stray dog is noticed close to Zoo Hospital and Rescue Centre during evaluation Action should be taken to prevent entry of stray animals in to zoo premises to avoid threat of any disease such as Canine Distemper. Near the entrance, there is wide gap through which stray dogs entry into premises. Immediate action is needed to close the wall along the road leading to zoo.	Done
2. Administrative and staffing pattern :			
4	10.2(1)	Incumbent Officer is holding additional charge. There is a need to post "whole time in-charge."	Director is the whole time in-charge of the safari & zoo Currently not holding any additional charge.
5	10.2(2)	Scientific and technical staff namely the Curator, the Education Officer and the Biologist should be appointed in the zoo as early as possible.	Recruitment to be done by government
4. Animal housing, display of animals and enclosures :			
6	10.4(3)	Some strategies should be adopted to avert the chance of falling inside the enclosure.	Done The height of the Retaining wall has been increased.
7	10.4(6)	Plantation of more indigenous species should be carried out in animal enclosure as part of enrichment.	Done
8	10.4(10)	Bilingual signage is needed to be placed to create more awareness among wide range of public visiting the zoo.	Done
5. Upkeep and healthcare of animals :			
9	10.5(2)	Steel food containers with lids should be kept in storage room.	Done
10	10.5(2)	Register meant for receipt and distribution of food items to captive animals in the zoo should be promptly verified and signed by the responsible personnel.	Done
11	10.5(2)	Window in the slaughter house is having damaged net cover, it need immediate attention and correction.	Done
12	10.5(2)	Meat handlers should use clean gloves when handling the meat.	Done
13	10.5(5)	Appropriate protocol should be prepared and implemented for solid waste management in the zoo.	Done

14	10.5(6)	There should be some arrangement to keep one Veterinarian in the night at jungle safari to attend emergency, if any	Done
6. Veterinary and infrastructure facilities :			
15	10.6(1)(a)	Zoo Hospital need oxygen cylinder for emergency purpose. A few items can be added in the list of veterinary facilities like steel operation table. blood transfusion device, trolley, autoclave inhalation anaesthesia machine, isoflurane vaporizer, pulse oximeter.	Done
16	10.6(1)(b)	Zoo Hospital should have Elizabethan collar which can be used to put around the neck of animal while treating the wounded animal to avoid licking or scratching.	Done
17	10.6(1)(b)	Medicine Stock Register with information on expiry date should be maintained.	Done
18	10.6(2)	Adequately qualified Technician should be appointed in the zoo to operate diagnostic equipment and data analysis in the zoo.	Recruitment to be done by government
19	10.6(5)	The Laboratory assistant and the Stockman / Compounder should be appointed in the zoo.	Recruitment to be done by government
20	10.6(6)	Newly appointed Veterinarians in the zoo should be trained to handle tranquilizing equipment.	Done
21	10.6(6)	Linkages should be established by the zoo with eminent institution and organization working in the field of wild animal healthcare such as the IVRI Izatnagar, the NDVSU Jabalpur and the TANUVAS, Chennai wherein zoo personnel should be deputed for training by having a Schedule for the same.	Due to Covid - pandemic situation in the country, Linkages with the eminent institution could not be carried out. But, in due course the zoo administration will pursue this forward.
22	10.6(6)	Personnel of the zoo should be deputed to international and national zoos of excellence for exposure.	Done
9. Acquisition and breeding of animals :			
23	10.9(6)	Methodology of the planned Breeding Programme of Wild Buffalo (<i>Bubalus arnee</i>) Taken up by the zoo should be finalised in consultation with the Central zoo Authority and should be carried out with requisite statutory approval.	In this regard CZA advised the zoo administration to go for AI method of breeding programme. It is under process in collaboration with CCMB, Hyderabad
24	10.9(10)	Disaster Management/ escape route or precautionary plan should be displayed.	Done
11. Education and outreach activities :			
25	10.11(1)	There is good scope of Souvenir shop. Steps should be taken to open it.	Done

List of Free Living Wild Animals Within the Premises

Area wise Avian checklist of Nandan Van Zoo and Jungle Safari area, Naya Raipur, Chhattisgarh

Plain Prinia	Cisticolidae	<i>Prinia inornata</i>	Resident
Black Drongo	Dicruridae	<i>Dicrurus macrocerus</i>	Resident
Indian Roller	Coraciidae	<i>Coracias benghalensis</i>	Resident
Wire Tailed Swallow	Hirundinidae	<i>Hirundo smithii</i>	Resident
Barn Swallow	Hirundinidae	<i>Hirundo rustica</i>	Migratory
Spotted Dove	Columbidae	<i>Spilopelia chinensis</i>	Resident
Ashy Crowned Sparrowlark	Aludidae	<i>Eremopteryx griseus</i>	Resident
Indian Bushlark	Aludidae	<i>Mirafa erythroptera</i>	Resident
Richard's Pipit	Motacillidae	<i>Anthus richardi</i>	Migratory
Black Kite	Accipitridae	<i>Milvus migrans</i>	Resident
White Eye Buzzard	Accipitridae	<i>Butastur teesa</i>	Resident
Shikra	Accipitridae	<i>Accipiter badius</i>	Resident
Black Winged Kite	Accipitridae	<i>Elanus caeruleus</i>	Resident
Greater Coucal	Cuculidae	<i>Centropus sinensis parroti</i>	Resident
Asian Koel	Cuculidae	<i>Eudynamus scolopaceus</i>	Resident
Rose Ringed Parakeet	Psittaculidae	<i>Psittacula krameri</i>	Resident
Plum Headed Parakeet	Psittaculidae	<i>Psittacula cyanocephala</i>	Resident
Spotted Owlet	Strigidae	<i>Athene brama</i>	Resident
Indian Eagle Owl	Strigidae	<i>Bubo (bubo) bengalensis</i>	Resident
Barn Owl	Strigidae	<i>Tyto alba</i>	Resident
Mottled Wood Owl	Strigidae	<i>Strix ocellata</i>	Resident
Nightjar	Caprimulgidae	<i>Caprimulgus sp.</i>	Resident
Grey Francolin	Phasianidae	<i>Francolinus pondicerianus</i>	Resident
House Crow	Corvidae	<i>Corvus splendens</i>	Resident
Common Chiffchaff	Phylloscopidae	<i>Phylloscopus collybita</i>	Migratory
Black Redstart	Muscicapidae	<i>Phoenicurus ochruros</i>	Migratory
Indian Robin	Muscicapidae	<i>Saxicoloides fulicatus</i>	Resident
Oriental Magpie Robin	Muscicapidae	<i>Copsychus saularis</i>	Resident
Bluethroat	Muscicapidae	<i>Luscinia svecica</i>	Migratory
Long Tailed Shrike	Laniidae	<i>Lanius schach</i>	Partially Migratory
Green Bee Eater	Meropidae	<i>Merops orientalis</i>	Resident
Brown Capped Pygmy Woodpecker	Picoides	<i>Dendrocopos nanus</i>	Resident
Red Vented Bulbul	Pycnonotidae	<i>Picnonotus cafer</i>	Resident
Jungle Babbler	Leiothrichidae	<i>Turdoides striata</i>	Resident
Hoopoe	Upupidae	<i>Upopa eops</i>	Resident
Coppersmith Barbet	Capitonidae	<i>Megalaima haemacephala</i>	Resident
Indian Grey Hornbill	Bucerotidae	<i>Ocyrceros birostris</i>	Resident
Eurasian Collared Dove	Columbidae	<i>Streptopelia decaocta</i>	Resident
Laughing Dove	Columbidae	<i>Spilopelia senegalensis</i>	Resident
Purple Rumped Sunbird	Nectariniidae	<i>Leptocoma zeylonica</i>	Resident
Purple Sunbird	Nectariniidae	<i>Cinnyris asiaticus</i>	Resident



Purple Heron



Grey Heron



White Eye Buzzard



Black Kite



Great Egret



Intermediate Egret



Shikra



Black Winged Kite



Cattle Egret



Indian Pond Heron



Grey Francolin



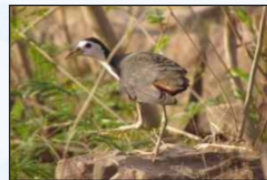
Bronze Winged Jacanna



Asian Openbill



Little Cormorant



White Breasted Waterhen



Little Ringed Plover



Common Green Shank



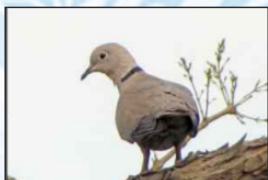
Spotted Dove



Indian Eagle Owl



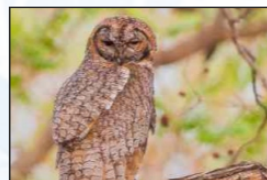
Spotted Owlet



Eurasian Collared Dove



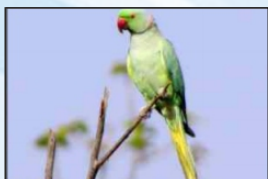
Laughing Dove



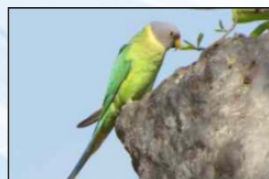
Mottled Wood Owl



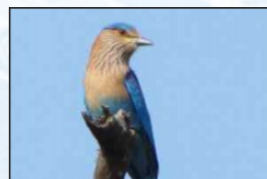
Barn Owl



Rose Ringed Parakeet



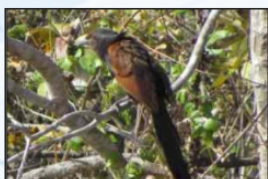
Plum Headed Parakeet



Indian Roller



Common Kingfisher



Greater Coucal



Asian Koel



White Breasted Kingfisher



Pied Kingfisher

Checklist of Reptilian fauna observed during the short term survey in Jungle Safari of Naya Raipur area, Chhattisgarh

S.No.	Common Name	Hindi Name	Family	Scientific Name
1	Brahminy Worm Snake	Samanya Kit Sanp	Typhlopidae	<i>Ramphotyphlops braminus</i>
2	Indian Rock Python	Bharatiya Azgar	Pythonidae	<i>Python molurus</i>
3	Common Sand Boa	Khurdura Dum Boa	Boidae	<i>Eryx conicus</i>
4	Common Trinket Snake	Samanya Abhushit Sanp	Cloubriidae	<i>Coelogranathus helena</i>
5	Indian Rat Snake	Bharatiya Dhaman	Cloubriidae	<i>Ptyas mucosa</i>
6	Banded Racer	Dhawak	Cloubriidae	<i>Argyrogena fasciolata</i>
7	Common Kukri Snake	Kukri Sanp	Cloubriidae	<i>Oligodon arnensis</i>
8	Common Wolf Snake	Samanya Koriyala Sanp	Cloubriidae	<i>Lycodon aulicus</i>
9	Checkered Keelback	Dhoriya Sanp	Cloubriidae	<i>Xenochrophis piscator</i>
10	Striped Keelback	Pattedar Dhoriya	Cloubriidae	<i>Amphiesma stolatum</i>
11	Common Krait	Samanya Krait	Elapidae	<i>Bungarus caeruleus</i>
12	Spectacled Cobra	Bharatiya Nag	Elapidae	<i>Naja, naja</i>
13	Russel's Viper	Ghodas	Viperidae	<i>Daboia russelii</i>
14	Indian Flap-shell Turtle	Kachua	Trionychidae	<i>Lissemys punctata</i>
15	Bengal Monitor Lizard	Goh	Varanidae	<i>Varanus bengalensis</i>
16	Oriental Monitor Lizard	Girgit	Agamidae	<i>Colotes versicolor</i>
17	Asian House Gecko	Chhipkali	Gekkonidae	<i>Hemidactylus frenatus</i>
18	Forest Grass Skink	NA	Scincidae	<i>Eutropis carinata</i>

All these 18 detected species of 11 different reptile families were represented in a single list because they were more or less equally distributed throughout the Jungle Safari area. Of these 18 species, Indian rock python and Indian flap-shell turtle belonged to Schedule-I category of Indian Wildlife (Protection) Act, 1972.



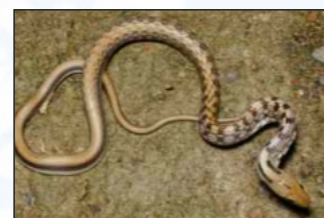
Brahminy Worm Snake



Indian Rock Python



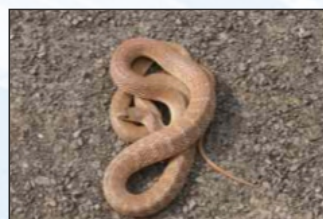
Common Sand Boa



Common Trinket Snake



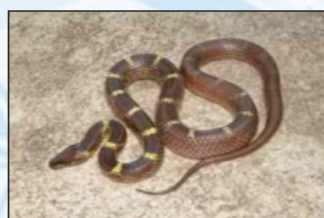
Indian Rat Snake



Banded Racer



Common Kukri Snake



Common Wolf Snake



Checkered Keelback



Striped Keelback

10 Different species of mammals were found in the Jungle Safari area. During the current survey local villagers were asked for other mammalian special and as per their observation Striped Hyena *Hyaena hyaena* of Hyaenidae and Indian Jackal *Canis aureus* of Canidae were present in the area though observers did not find any evidence of these two species.

S.No.	Common Name	Family	Scientific Name
1	Indian Fox	Canidae	<i>Vulpes bengalensis</i>
2	Common Palm Civet	Viverridae	<i>Paradoxurus hermaphrodites</i>
3	Indian Grey Mongoose	Herpestidae	<i>Herpestes edwardsii</i>
4	House Shrew	Soricidae	<i>Suncus murinus</i>
5	Indian Field Mouse	Muridae	<i>Mus booduga</i>
6	House Mouse	Muridae	<i>Mus musculus</i>
7	Three Striped Palm Squirrel	Sciuridae	<i>Funambulus palmarum</i>
8	Indian Flying Fox	Pteropodidae	<i>Pteropus giganteus</i>
9	Black Bearded Tom Bat	Emballanuridae	<i>Taphozous melanopogon</i>
10	Indian Hare	Leporidae	<i>Lepus nigricollis</i>



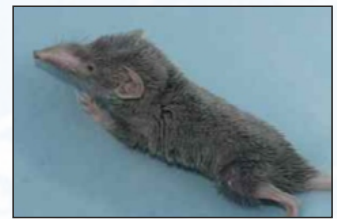
Indian Fox



Common Palm Civet



Indian Grey Mongoose



House Shrew



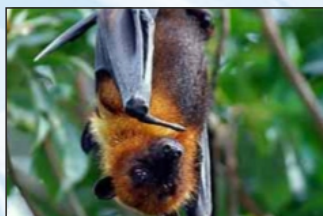
Indian Field Mouse



House Mouse



Three Striped Palm Squirrel



Indian Flying Fox



Black Bearded Tom Bat



Indian Hare



Battery operated vehicle facility



40-seater cruise boating facility



Caged vehicles for safari visit



Wooden / bamboo pergolas for visitors

Visitors Facility



Green parking facility



Washroom facility



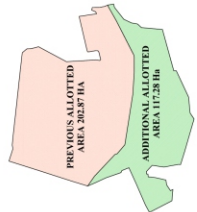
Bilingual signages



Interactive signages

Master Layout Plan

REVISED MASTER LAYOUT PLAN OF NANDANVAN ZOO & SAFARI, NAYARAIPUR, CHHATTISGARH. AREA - 320.15 Ha.



Sl. No.	NAME	SYMBOL
1.	ROAD	[Symbol]
2.	ROAD CATCH	[Symbol]
3.	ROAD CATCH	[Symbol]
4.	ROAD CATCH	[Symbol]
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49.	ROAD CATCH	[Symbol]
50.	ROAD CATCH	[Symbol]

Sl. No.	ZONE NAME	AREA (In Ha.)
1.	MANAGEMENT ZONE	52.52
2.	MANAGEMENT ZONE	30.80
3.	MANAGEMENT ZONE	20.03
4.	MANAGEMENT ZONE	20.15
5.	MANAGEMENT ZONE	10.75
6.	MANAGEMENT ZONE	6.30
7.	MANAGEMENT ZONE	32.03
8.	MANAGEMENT ZONE	12.18
9.	MANAGEMENT ZONE	8.75
10.	MANAGEMENT ZONE	4.75
11.	MANAGEMENT ZONE	7.67
12.	MANAGEMENT ZONE	11.50
13.	MANAGEMENT ZONE	26.07
14.	MANAGEMENT ZONE	250.15
15.	MANAGEMENT ZONE	250.15
16.	MANAGEMENT ZONE	250.15
17.	MANAGEMENT ZONE	250.15
18.	MANAGEMENT ZONE	250.15
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50.	MANAGEMENT ZONE	250.15



NOTES:
 1. This drawing is based on survey drawing provided by the Client.
 2. Contour interval 0.5 M.
 3. The drawing is for reference only and is not to be used for construction.
 4. Details shown in this drawing are subject to change without notice. Suitable changes in working drawings are to be made to avoid free filling.

REVISED MASTER LAYOUT PLAN FOR NANDANVAN ZOO & SAFARI, NAYARAIPUR, CHHATTISGARH.
 REVISED MASTER LAYOUT PLAN

DATE: 02.12.2021
 DRAWING NO: 01
 SCALE: 1:5000
 SCALE BAR 1:5000

Sl. No.	NAME	SYMBOL
1.	ROAD	[Symbol]
2.	ROAD CATCH	[Symbol]
3.	ROAD CATCH	[Symbol]
4.	ROAD CATCH	[Symbol]
5.	ROAD CATCH	[Symbol]
6.	ROAD CATCH	[Symbol]
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18.	ROAD CATCH	[Symbol]
19.	ROAD CATCH	[Symbol]
20.	ROAD CATCH	[Symbol]
21.	ROAD CATCH	[Symbol]
22.	ROAD CATCH	[Symbol]
23.	ROAD CATCH	[Symbol]
24.	ROAD CATCH	[Symbol]
25.	ROAD CATCH	[Symbol]
26.	ROAD CATCH	[Symbol]
27.	ROAD CATCH	[Symbol]
28.	ROAD CATCH	[Symbol]
29.	ROAD CATCH	[Symbol]
30.	ROAD CATCH	[Symbol]
31.	ROAD CATCH	[Symbol]
32.	ROAD CATCH	[Symbol]
33.	ROAD CATCH	[Symbol]
34.	ROAD CATCH	[Symbol]
35.	ROAD CATCH	[Symbol]
36.	ROAD CATCH	[Symbol]
37.	ROAD CATCH	[Symbol]
38.	ROAD CATCH	[Symbol]
39.	ROAD CATCH	[Symbol]
40.	ROAD CATCH	[Symbol]
41.	ROAD CATCH	[Symbol]
42.	ROAD CATCH	[Symbol]
43.	ROAD CATCH	[Symbol]
44.	ROAD CATCH	[Symbol]
45.	ROAD CATCH	[Symbol]
46.	ROAD CATCH	[Symbol]
47.	ROAD CATCH	[Symbol]
48.	ROAD CATCH	[Symbol]
49.	ROAD CATCH	[Symbol]
50.	ROAD CATCH	[Symbol]

Sl. No.	ZONE NAME	AREA (In Ha.)
1.	MANAGEMENT ZONE	52.52
2.	MANAGEMENT ZONE	30.80
3.	MANAGEMENT ZONE	20.03
4.	MANAGEMENT ZONE	20.15
5.	MANAGEMENT ZONE	10.75
6.	MANAGEMENT ZONE	6.30
7.	MANAGEMENT ZONE	32.03
8.	MANAGEMENT ZONE	12.18
9.	MANAGEMENT ZONE	8.75
10.	MANAGEMENT ZONE	4.75
11.	MANAGEMENT ZONE	7.67
12.	MANAGEMENT ZONE	11.50
13.	MANAGEMENT ZONE	26.07
14.	MANAGEMENT ZONE	250.15
15.	MANAGEMENT ZONE	250.15
16.	MANAGEMENT ZONE	250.15
17.	MANAGEMENT ZONE	250.15
18.	MANAGEMENT ZONE	250.15
19.	MANAGEMENT ZONE	250.15
20.	MANAGEMENT ZONE	250.15
21.	MANAGEMENT ZONE	250.15
22.	MANAGEMENT ZONE	250.15
23.	MANAGEMENT ZONE	250.15
24.	MANAGEMENT ZONE	250.15
25.	MANAGEMENT ZONE	250.15
26.	MANAGEMENT ZONE	250.15
27.	MANAGEMENT ZONE	250.15
28.	MANAGEMENT ZONE	250.15
29.	MANAGEMENT ZONE	250.15
30.	MANAGEMENT ZONE	250.15
31.	MANAGEMENT ZONE	250.15
32.	MANAGEMENT ZONE	250.15
33.	MANAGEMENT ZONE	250.15
34.	MANAGEMENT ZONE	250.15
35.	MANAGEMENT ZONE	250.15
36.	MANAGEMENT ZONE	250.15
37.	MANAGEMENT ZONE	250.15
38.	MANAGEMENT ZONE	250.15
39.	MANAGEMENT ZONE	250.15
40.	MANAGEMENT ZONE	250.15
41.	MANAGEMENT ZONE	250.15
42.	MANAGEMENT ZONE	250.15
43.	MANAGEMENT ZONE	250.15
44.	MANAGEMENT ZONE	250.15
45.	MANAGEMENT ZONE	250.15
46.	MANAGEMENT ZONE	250.15
47.	MANAGEMENT ZONE	250.15
48.	MANAGEMENT ZONE	250.15
49.	MANAGEMENT ZONE	250.15
50.	MANAGEMENT ZONE	250.15

AREA STATEMENTS FOR BIOLOGICAL PARK -
 AREA ENGAGED FOR ANIMALS - 100.00 Ha
 OTHER AREA ENGAGED FOR ANIMALS - 100.00 Ha
 GREEN AREA STATEMENTS - 242.15 Ha
 TOTAL AREA STATEMENTS - 242.15 Ha

AREA STATEMENTS FOR BIOLOGICAL PARK -
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 OTHER AREA ENGAGED FOR ANIMALS - 100.00 Ha
 GREEN AREA STATEMENTS - 242.15 Ha
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NANDANVAN SAFARI AND ZOO

Sector-39, Nava Raipur, Atal Nagar, Chhattisgarh - 493661

E-mail: dfojunglesafari@yahoo.com, Website: www.junglesafari.cg.nic.in

 [JungleSafariRaipur](#)

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