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DEER PARK

NMDC Limited,
Donimalai Complex, Karnataka

Annual Report for the year
2018-19



27/9

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1. Report of the Officer-in-charge - Enclosed as a Annexure-I
2. History of the Zoo - Enclosed as a Annexure-I
3. Vision - Inspiring current and future generations to become active stewards of wild life and wild places
4. Mission - NMDC Limited is committed to saving species in animal care with our dedication to inspiring passion for nature
5. Objective - Bio Diversity-Conservation education and awareness
6. About us:-

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	NMDC Limited, Donimalai Complex
2	Year of Establishment	1993
3	Address of the Zoo	NMDC Limited, Donimalai Complex, Sandur Thanking you,, Ballari Dist- 583118
4	State	Karnataka
5	Telephone Number	9449864862
6	Fax Number	08395274464
7	E-mail address	tsramanath@nmdc.co.in
8	Website	www.nmdc.co.in
9	Distance from nearest	Airport:Jindal

S.No.	Particulars	Information
		Railway Station: Toranagallu
		Bus Stand: Sandur
10	Recognition Valid upto (Date)	28.09.2019
11	Category of zoo	Mini Zoo
12	Area (in Hectares)	5 Hectares (approx)
13	Number of Visitors (Financial Year)	Adult :1613
		Children 1768
		Total Indian :3381
		Total Foreigners: 0
		Total Visitors:3381
14	Visitors' Facilities Available in Zoo	Wall paintings of different species of Deers at entrance of deer Park
15	Weekly Closure Day of the Zoo	Sunday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Sri.T.S.Ramanath, DGM(Civil),NMDC Limited, Donimalai Complex
	Name of the Veterinary Officer	Dr.Vali, Sadur(Tq.) ,Ballari Dist
	Name of the Curator	-
	Name of the Biologist	-
	Name of the Education Officer	-

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S.No.	Particulars	Information
	Name of the Compounder/ Lab Assistant	-
Owner / Operator of the Zoo		
17	*Name of the Operator	Sri.D.Sunil Kumar, General Manager, NMDC Limited, Donimalai Complex, Sandur(Tq), Ballari(Dist),583118
18	Address of the Operator	NMDC Limited, Donimalai Complex, Sandur (Tq), Ballari Dist-583118
19	Contact details/Phone number of Operator	9449871013
20	E-mail address of Operator	dsunilkumar@nmdc.co.in

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

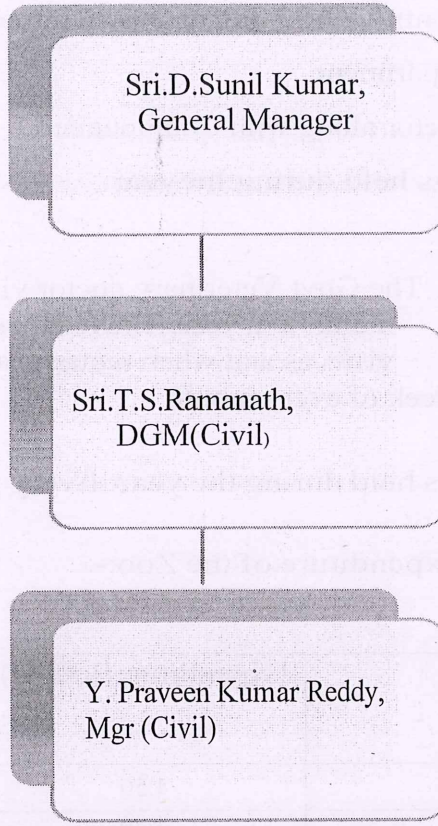
“Zoo Operator” means the person who has ultimate control over the affairs of the zoos provided that _____

I. in the case of a firm or other association of individuals, any one of the individual partners or members thereof; or

II. in the case of a company, any director, manager, secretary or other officer, who is in-charge of and responsible to the company for the affairs of the zoo; or

III. In case of zoo owned or controlled by the Central Government or any State Government or Union Territory Administration or any Trust or Society funded by the Central Government or a State Government or a Union Territory Administration, the Secretary of the concerned Department of that Government, or as the case may be the Union Territory Administration, shall be deemed to be the Zoo Operator.

7. Organizational Chart



8. Human Resources

Manpower of the Zoo*

Sl.No.	Designation	Number of Sanctioned Posts	Names of the incumbent
1	DGM(Civil)	1	Sri.T.S.Ramanath
2	Mgr(Civil)	1	Y. Praveen Kumar Reddy
3	Animal Keeper	1	Sri. Honnur swamy

*Please give above mentioned information in respect of all zoo personnel, from the Officer in-charge upto the Animal Keeper.

9. Capacity Building of zoo personnel

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

10. Zoo Advisory Committee – Govt Veterinary Hospital

- a. Date of constitution – Monthly Once and as on when requests made by department.
- b. Members – Veterinary Doctor along with Compounder
- c. Dates on which Meetings held during the year:

11. Health Advisory Committee– The Govt Veterinary doctor visits this Zoo every month in a year. The local veterinary doctor also visits as and when requests are made

- a. Date of constitution: 1st Week of every month
- b. Members ----
- c. Dates on which Meetings held during the year: Every month 1st week

12. Statement of income and expenditure of the Zoo:-

SN	Year	Expenditure(Lakhs)	Income(Lakhs)
1	2015-16	4.50	Nil
2	2016-17	4.50	Nil
3	2017-18	4.80	Nil
4	2018-19	4.48	Nil

13. Daily feed Schedule of animals

Sl.No.	Species	Feed item	Quantity		Day of fasting
			Winter	Summer	
1	Antelope cervicapra	Feed with 16% rich Proteins	23.50 Kgs	23.50 Kgs	Sunday

14. Vaccination Schedule of animals

Sl.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
-	-	-	-	-	-

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15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
1	Antelope cervicapra	Albedozole syrup	1 Month/Once

16. Disinfection Schedule

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
-	-	-	-	-
-	-	-	-	-

17. Health Check-up of employees for zoonotic diseases

Sl.No.	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Y. Praveen Kumar Reddy	Animal Keeper	-	-
1	Honnur Swamy	Animal Keeper	-	-

18. Development Works carried out in the zoo during the year:

- 1) Construction of Foot Bath at entrance.
 - 2) Painting of fencing completed.
 - 3) Standoff barrier is completed.
 - 4) Permanent feed store renovated.
 - 5) Kraal room completed.
 - 6) Post mortem room renovated.
 - 7) Construction of drinking water tanks at 04 locations.
 - 8) Construction of feed points at 04 different locations.
- 19) Education and Awareness programmes during the year: Kendriya Vidyalaya School, Govt High School, Govt Primary School of Donimalai and other surrounding schools children will visit.
- 20) Important Events and happenings: World Environmental Day celebrations are conducted every year for one week (i.e upto 5th June) during which competitions like Poster painting, Slogan competitions, Essay writing etc will be conducted for all school children, employees, Home Makers etc and prizes will be distributed on final day celebrations.
- 21) Seasonal special arrangements for upkeep of animals: -

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22) Research Work carried out and publications: -NA-

23) Conservation Breeding Programme of the Zoo: - ----

24) Animal acquisition / transfer / exchange during the year:

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

26) Rescue and Rehabilitation of wild animals carried out by the Zoo

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

27) Annual Inventory of animals

Form-II
(See Rule 11(1))
Part-A Inventory Report for the Year

Endangered Species *

S.N o.	Anim al Nam e	Scienti fic name	Opening Stock as on				Births			Acquisition			Disp osal			Death			Closing Stock as on			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
1	Black Bucks	Antelope cervicapra	2	2	-	4	1	7	-	-	-	-	-	-	2	4	-	2	2	-	4	
			2	4		6												1	7		8	

*Animals under Schedule I and Schedule II of the Wild Life (Protection) Act, 1972

Part – B

Other than Endangered Species

S.N o.	Anim al Nam e	Scienti fic name	Opening Stock as on				Births			Acquisiti on			Dispos al			Death			Closing Stock as on			
			M	F	U	T	M	F	U	M	F	U	M	F	U	M	F	U	M	F	U	T
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

9) Mortality of animals

Sl.No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
1	Black Buck	Antelope cervicapra	F	19/06/2018	Pneumonia
2	Black Buck	Antelope cervicapra	F	20/06/2018	Acute Bloat
3	Black Buck	Antelope cervicapra	F	29/07/2018	Traumatic Shock
4	Black Buck	Antelope cervicapra	M	13/11/2018	Traumatic Shock
5	Black Buck	Antelope cervicapra	F	19/11/2018	Acute Bloat
6	Black Buck	Antelope cervicapra	M	20/11/2018	Traumatic Shock

28) Compliance with conditions stipulated by the Central Zoo Authority

SN	Norm under RZR 2009	Violations of recognition of Zoo Rules,2009	Compliance pending since	Time period to comply	Compliance Report
4. Animal housing, display of animals and animal enclosures					
1	10.4(2)	The Deer Park has failed to provide the animal enclosures with endemic trees, shrubs and bushy plants. The deer park has also failed to substitute the Babul trees in the herbivore enclosure with other native species with proper tree guards	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
2	10.4(2)	The Deer Park failed to construct/provide the separate nature immersing well designed safe enclosure for housing different deer species as per the CZA guidelines and proposed collection plan	Violations observed during present evaluation dated 18/07/2018	Six months	It is under examination
3	10.4(2)	The deer park has failed to hide the naked water pipe line passing through the pad lock of the black buck enclosure as it may obstruct the animals.	Violations observed during present evaluation dated 18/07/2018 and also pending since 09/04/2014	With immediate effect	It is complied
4	10.4(2)	The deer park has failed to provide animal pad lock with double gate entry for the keepers	Violations observed during present evaluation dated 18/07/2018		It is complied
5	10.4(3)	The deer park has failed to ensure that the enclosure is safe and secure for the animals, animal keepers and the visitors and has requisite space for natural behaviour by the animals.	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
6	10.4(3)	The Deer Park has failed to remove the unutilized telephone pole present inside the paddock	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
7	10.4(3)	The Deer Park has failed to cover the manmade open runoff water drain passes through the pad dock of animals the black buck may fall in and may get injured.	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
8	10.4(7)	The deer park has failed to maintain the adequate buffer of green plants between the entry road to the NMDC plant area and the deer park to reduce the noised and other disturbance.	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
5. Up keep and Helath care of animals					
9	10.5(2)	The deer park has failed to test the food and water provided to the animals periodically	Violations observed during present evaluation dated 18/07/2018 and also pending since 17/08/2016	With immediate effect	It is complied

10	10.5(3)	The deer park has failed to maintain any records on the daily feed provided to the animals	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
11	10.5(3)	The deer park has failed to make the feed store rodedht proof	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
12	10.5(5)	The deer park has failed to prepare and implement the schedule for disinfection of animal enclosures	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
13	10.5(5)	The deer park has failed to provide a proper waste disposal system for treating both solid and liquid wastes generated in the deer park. The deer park has also failed to construct Drainage system to dispose of liquid waste generated in the enclosure/Zoo	Violations observed during present evaluation dated 18/07/2018	Six months	It is complied
14	10.5(5)	The deer park has failed to provide foot baths at the entrances & exit of each enclosure.	Violations observed during present evaluation dated 18/07/2018 and also pending since 17/08/2016	Three months	It is complied
15	10.5(5)	The deer park has failed to remove boulders and plastic waste from the animal paddock	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
16	10.5(9)	The deer park has failed to screen the staff involved with upkeep and health care of zoo animals against Zoonotic diseases. The deer park has failed to maintain any report of such screening in the past.	Violations observed during present evaluation dated 18/07/2018 and also pending since 17/08/2016 & 05/04/2011	With immediate effect	It is complied
17	10.5(10)	The deer park has failed to maintain the following records as per the standards and format specified by the Centarl Zoo Authority: 1) Keepers Dairy 2) Daily Reports 3) Animal History Cards 4)Treatment Cards 5) Vaccination Schedule 6) De-worming Schedule 7) Animal Feed Register 8) Herd Book 9)De-worming Schedule	Violations observed during present evaluation dated 18/07/2018 and also pending since 05/04/2011	With immediate effect	It is complied
6. Veterinary and Infastructure Facilities					

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18	10.6(1) ©	The deer park has failed to have at least a treatment room with all basic facilities.	Violations observed during present evaluation dated 18/07/2018 and also pending since 09/04/2014	With immediate effect	It is complied
19	10.6(3)	The deer park has failed to shift the opening of the post Mortem Room to the animal Paddock	Violations observed during present evaluation dated 18/07/2018	Immediately	It is complied
7. Post mortem and disposal of carcasses of animals					
20	10.7(2)	The deer park has failed to record the Post mortem findings in the format prescribed by the CZA	Violations observed during present evaluation dated 18/07/2018 and also pending since 17/08/2016 & 05/04/2011	Immediately	It is complied
Rule 11: Maintenance of records and submission of inventory					
21	11(1)	The deer park has failed to maintain the Animal Stock Register of the Deer Park in an organised manner and in the prescribed format of the CZA	Violations observed during present evaluation dated 18/07/2018	With immediate effect	It is complied
22	11(2)	The Deer Park has failed to submit Annual Report to the Centarl Zoo authority	Violations observed during present evaluation dated 18/07/2018	Immediately for the year 2017-18 and by 30th June every year	It is complied
23	10.12(3)	The Deer Park has failed to create Ramps and also failed to procure wheel chairs to facilitate visit of Divyangjan among visitors to visit animal enclosures.	Violations observed during present evaluation dated 18/07/2018	Three months	It is complied

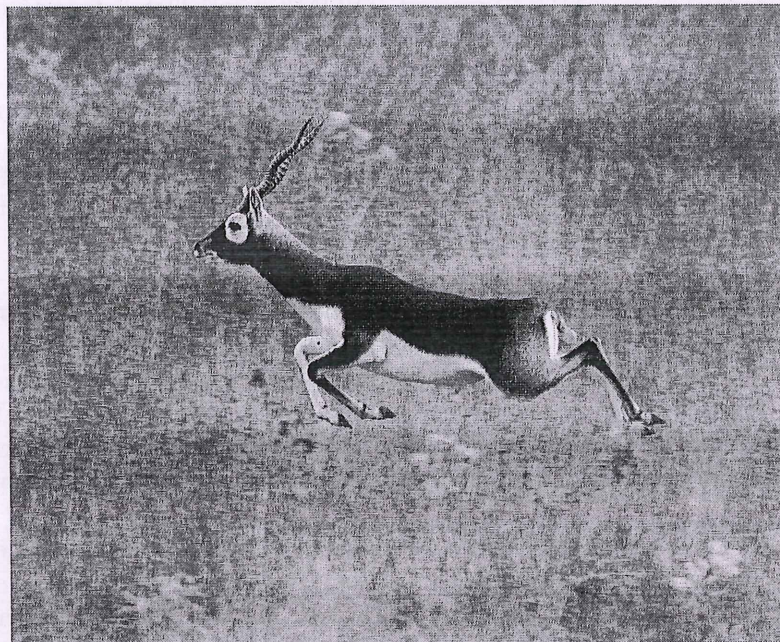
29) List of free living wild animals within the zoo premises

- a. Mammals- Nil
- b. Birds - Nil
- c. Reptiles - Nil

NMDC Limited
Donimalai Iron Ore Mine
Donimalai Township
Sandur (Tq), Ballari Dist, Karnataka

Deer Park

NMDC Limited, Karnataka State



MASTER PLAN OF DEER PARK AT DONIMALAI TOWNSHIP, NMDC LIMITED,
SANDUR TALUK, BALLARI DIST, KARNATAKA STATE.

Part-1

1. **Introduction:** The deer park is situated at NMDC Limited, Donimalai Iron Ore Mine, Donimalai Complex, Donimalai, Sandur Taluk, Ballari Dist, Karnataka and occupies an important place among Panchayath, Donimalai is situated in Sandur Taluk and is approachable by road from Sandur, which is 10 kms away. The nearest railway station for passenger traffic is Toranagallu in the Hubballi – Guntakal broad guage section of South Western Railway which is 26 kms from Donimalai. The district town Ballari is 58kms away on the NE and another important trading centre Hosapete is 40 kms away on the NW direction. The distance from Bengaluru is 325 kms.

The area of the zoo is 5 Ha. which has been fenced with chain link mesh. The advisory committee is NMDC Limited, DIOM's Civil Department for management and improvement of zoo.

Objective's: Biodiversity – Conservation, education and awareness.

Topography: The zoo area is situated adjacent to Donimalai Forest Range of Sandur at flat surface with latitude 15° 2' 00" - 15°6'30" N. Longitude 76°36'00" - 76°38'30" E altitude 600 meter above MSL.

Geology of Rock and Soil: The prevailing rock of the are is Sandur schist belt referred as "Dharwars" (A super group of the pre-cambrian schist rock of Karnataka). The Sandur schist belt is highly deformed green stone belst made up mainly of metabasalts intercalated with minor sediments and a spectacular development of iron formation. Shelffacies sedimenta are confined to the margins and are marked by the presence of intercalated bands of Quartzite, Quartzschist's alternating with metablasts and amphibolites. These are the lowest formation in the green schist's sequence resting on the older basement of genessies. The general lithology of rock formation os Laterites, Ferruginous Shales, Banded Hematite Quartzite, Iron Ore banks, Phyllites/Shales. The soil is mostly derived from disintegrated gneiss with occasional quartzite formations and mostly Reddish sandy loam.

FLORA AND FAUNA: The district is located in arid zone. The scanty and capricious nature of the rain fall has greatly influenced the formation of various vegetation types of the district. The forest of this are can be presumed to have reached the climax of the region, dry, deciduous forests that are being retrogressed to various stages of degradation. As per the revised classification of Indian forest types by sir. Harry G. Chamion and Shri S.K.Sethi the forest area falls under 5A/C3 of Southern dry mixed deciduous forest and 5DSI Dry deciduous scrub.

The common species of the adjacent are Agave sisalna and other agave splpecies (Kathale), Acacia nilotica (Acacia Arabica, Jali, Kari Jali, Babul), Acacia auriculiformis (Bengal jail, Haladi-meese mara), acacia catechu (Kagli, Khair), Acacia Ferruuginea (Bannia), Acacia planiformis (Chhathri mara, Budde jail,), Albizzia lebbek (Bage), Artocarpus intergrifolia (Halasu Jack), Azardirachta indiaca (Neem, Bevu), Cassia siamea (seeme Thagadi), Casurina equisetifolia (Survey mara, Kyasarike, Cauarina), Emblica officinalis (Nelli. Mangifera indica (mavu), Melia azderach (hebbevu, Huchchu bevu), Pongamia glabra, Honge), Prosopis cineraria (prospopis juliflora) Bellary Jali, Santalum album (Gandha, sandal),

Tamarindas indicaq (hunase), Ficus bengalensis,(Indian Fig/ Indian Banyan), Mangifera indica etc.

The fauna found in the area Panthera (disambiguation, Mustela Africana, Lizard Lounge, (Sylvilagus floridanus), wild rabbit, (Rattus norvegicus), Tragulus meminna, (Mouse deer)- canis lupus (dos sp) Sus scofra domestica, Vulpes (Fox), (Cebus albifrons), Monkey Calotes versicolor (Lizard), Vipra ruselli, (snake)

Climate: The climate of the area can be classified as semi arid with free from extrames. The climate is tolerable at the mean temperature in the warmer months of April and May and in the coldest months of December and January. The temperature during day rarely exceeds 40⁰ c on a few winter nights.

Rainfall:- The rainfall is received from south west and north east monsoon. The average number of rainy days is 39. The average annual rainfall is 750 MM.

Season:- Mid February to mid may are the summer and November to February are the colder months, The rainy season starts from May remains upto October.

Approach: The deer park is situated at Donimalai Iron Mine (DIOM). It is approachable by road from Sandur,which is 10Kms away. The nearest railway station for passenger traffic is Tornagallu in the Hubli-Guntakal broad gauge section of south western Railway which is 26 Kms from Doniamlai. The district town bellary is 58 Kms away on the NE and another important trading center Hospet is 40 Kms away on the NM direction. The distance from Bangalore is 325 Kms. The roads are mortable and asphalted..

Demography:- There are 46 Black Bucks (Antilope Cervicapra) species in Donimalai deer park, NMDC Limited, out of which 23 Female and 23 Male the cause of death usually natural.

Legal Statue: The NMDC Limited, Donimalai deer park is recognized under section 38 Ha of the wild life (Protection) Act 1972 by the central Zoo Authority,New Delhi.

Source of Pollution:- The Donimalai Iron Ore Mine is 6Km away from Deer Park. There are huge hillocks which acts as a barrier between Mine and Zoo. Hence the Zoo is free from pollution.

2. Appraisal of the present arrangement and constraints:-

- a) The Donimalai deer park at present has one enclosure for 46 black buck deer consisting of 23 Male and 23 Female.
- b) The Government veterinary doctor visits this Zoo four times in a year. The local veterinary doctor will visit as and when request are made.
- c) There is a permanent store house to keep the feed adjacent to animal enclosure. Where the feed stored. The feed will be purchased from the sandur poultry farm, Sandur.
- d) A far as sanitation is concerned there is no problem at all as the area gentle to moderate slope, the sanitered water is diverted to a safe place
- e) Annual regular maintenance of chain link mesh has been carried out. The fodder plot maintenance like watering, weeding, Farm Yard Manure application has been regularly. Shelter room for the animals is being maintained regularly. However the maintenance of Zoo is carried out in

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accordance with the norms and guidelines of the Zoo authorities prescribed for the antelopes.

- f) Watch and ward:- The main entrance of the deer park is near the CISF check post. Hence round the clock watch and ward is kept on the deer park. Apart from this one care taker has been assigned for the up keeping, watch and ward of the deer park. The deer park is fenced with 12' height GI Chain Link Mesh MS angles.
- g) The drinking water will b e supplied round the clock for the deer park through pipe line laid to animal enclosure for cleaning and drinking.
- h) Daily wages employees are engage to collect the waste material and that will be dumped away from the zoo. The dust and waste collecting bins are kept outside the deer park.
- i) Visitors are allowed to see the deer park from outside the chain link mesh fencing only. The visitors to our project can see the deer park through their vehicle as the deer park along the approach road to our administrative building.
- j) No research activities are carried out in this Zoo.
- k) The main Objective Donimalai Deer Park is conservation, Education and awareness.

Conservation breeding: - The conservation breeding shall be takwen up in the Zoo to develop physically, genetically and behaviorally viable. This breeding in wild would be preferably among unrelated and have genetic variation.

Part-II

1. FUTURE OBJECTIVES INCLUDING MISSION STATEMENT THEME:-

The existing area of Zoo is 5 Ha at present there is one enclosure for Black buck Deer numbering 48 Deers.

2. THE NEW ACTIVITIES TO BE TAKEN UP ARE AS FOLLOWS :

- A) Purchase of First Aid Kit
 - B) Disposal of Solid waste and Liquid waste sewage to be upgraded
- 3. DISASTER MANAGEMENT PLAN**

The Zoo is located in the forest area and during the summer the forest fire is common. Hence, there should be minimum 10M width fire line along the Zoo, Fire Fighting equipments and Fire Extinguisher is to be kept ready during the summer

4. CONTINGENCY PLAN

- 1 Since the antelope are being in the Zoo there is no threat to the public. However, there is no single incidence of animal escape because the enclosure is fitted with chain link mesh.
- 2 As far as dog menace is concerned the Zoo is away from the Human habitat hence there is not much dog problem. However, anti rabies injection has been kept reserve in the project Hospital.
- 3 There is no incident of snake bite, however anti venom injection is available in local hospital and in veterinary hospital
- 4 There is no incidence of visitors being injured or falling inside enclosure. The enclosure is a chain link mesh of 3.00Metres Height. Fighting for male dominance is seldom. In case of any injuries, the veterinary doctor from sandur will be requested for treatment. Epidemics is common however this can be controlled by keeping the animal area clean, in providing clean water, by frequent changing of stored water spraying the disinfectant in and around animal Shelter and resting Zone. Taking the advise of Doctors, These are the preventive measures. In case of break down Veterinarians will treat the animals.
- 5 Capacity Building: The some of the Zoo staff are working for longer periods and they have gained enough experience in handling Zoo problems and Captive animals. The skills of Zoo staff could be upgraded by giving training in Zoo management, animal behavior, handling of animals, first aid to animals and other aspects by visiting to other Zoo in the State will help many things.

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Broad budget analysis for implementing the plan

Day to Day maintenance:-

Sl.No	Description	Amount
1	Supply of cattle feed to antelopes 48 animals 0.75Kg/animal@ Rs.28/kg	Rs.1008.00
2	Animals attender 1 Nos@ Rs.650/Day	Rs.650.00
3	Miscellaneous and other unforeseen charge	Rs.50.00
	Total/Day	Rs.1708.00

CONCLUSION:- Maintaining of deer park will help Conservation of endangered species, Education and awareness.