

## Annual report of the Zoo for the year 2016-2017

Report on the activities of M/s. Kesoram industries limited for the period April-2016 to march 2017 is provided status of compliances of Annual report of the Kesoram cement mini ZOO -2016-2017 conditions communicated vide letter 218-2/2017 –CZA/1800/2017 on 24/10/2017

### Introduction

Kesoram industries Mini Zoo park is located inside M/s.Kesoram industries staff colony , Basantnagar,Peddapalli district, since 27 years, it is operating by Kesoram management , as an autonomous body for overseeing the day to day operations is spread over an area of 5.31hectres with beautiful landscapes gardens interspersed with small forest patches with an abundances of free ranging birds. Kesoram deer Park was provided conditional recognition as a medium category zoo by Central Zoo authority under the 38 H(6) of the wild life (Protection )Act ,1972 or any other appropriate action under the Act .

### Vision

To complement and strengthen the national efforts in conservation of the biodiversity of the country, particularly the fauna through the ex-situ conservation linked with in-situ practices.

### Mission

To provide better upkeep and veterinary care to the wild animal housed in deer park in M/s kesoram industries limited, to ensure their conservation through best practices of management and bringing education & awareness among the people.

### Functions

- a) Specify the minimum standards for housing, upkeep and veterinary care of the animals kept in a zoo
- b) Evaluate and assess the functioning of deer park with respect standards or the norms as may be Prescribed by Central Zoo authority.
- c) Identify endangered species of wild animals for purposes of captive breeding and assigning Responsibility in this regard to a zoo.
- d) Identify priorities and themes with regard to display of captive animals in a zoo
- f) Co-ordinate training of zoo authorities for other assistance to zoos for development health & safety

1 ) **Administration set –up-** : M/s Kesoram management

2 ) **Recognition:** 1990

3 ) **Staff Engaged:** M/s Kesoram staff ( Managerial – 2nos ,Officers --2 nos. Our sourced staff – 10)

4) **Master Layout plan and master plan:** We have submitted Master Plan to Central Zoo Authority for Approval

- 5) Conservation Breeding Programme: Nil
- 6) Training Programme conducted during 2016-17: 5 nos. - Internal training Programme
- 7) Workshop on Management of Zoo: -Nil
- 8) Endangered species recovery: -Nil
- 9) Research Programme organized during 2016-17: -Nil
- 10) Exchange of animals approved/Recommended 2016-17 :- Nil
- 11) New Animal enclosure designed submitted Central Zoo Authority -Nil
- 12) Development works initiated/completed 2016-17
  - a) Drinking water shed
  - b) Rest shed
  - c) Constructed fencing for Extra safety point of view
- 13) Annual Visitors statement 2016-17  
15000nos.
- 14) Inventory of animals stood on 31/03/2017: Enclosed
- 15) Death/Birth /Acquisition /Disposal report of animals for 2016 – 17
  - a) Death: Nil
  - b) Birth: 29
  - c) Acquisition: Nil
  - d) Disposal: Nil
- 16) Birth report of endangered captive Stock: Nil
- 17) Inventory of buildings: Nil
- 18) Water Bodies:

Kesoram industries bore well water used as drinking water, for captive mini Zoo Park.

For Kesoram Cement  
For Kesoram Industries Limited  
  
(K.N. RAO)  
GENERAL MANAGER (HR&IR)

**Questionnaire for Evaluation of large, medium, small and mini zoos**  
Central Zoo Authority - {RECOGNITION OF ZOO RULES, 2009}

**PART-I**

(to be filled by the officer-in-charge of the zoo)

Date of Evaluation:

Name of the Evaluator/s:

1	Name of the Zoo	Mini Deer Park Keserav Cement Balantnagar
2	Name/designation of the officer in-charge of the zoo	K. Prasad (Horti) 9989799946
	Address:	Keserav Cement Balantnagar
	Mobile Phone:	9989799946
	Email:	200 park @ Keserav Cement . com
	Website:	
3	Location and Area of the Zoo (also indicate the distance from the city/town):	Balantnagar
	Whether the office of Zoo Director is within campus, if outside, how far?	Area 5.31 Hectares with in campus
4	If the Zoo Director is in-charge of any activity other than the zoo, if yes, please specify.	Horticulture & Dairy farm Incharge
5	Operator/Agency under whose control the Zoo, and	Plant head Keserav Cement Balantnagar
	Contact person	Sri Ch.S. Nageshwar Rao P.O.P.L Dist Telangana
	Address	9949097543 Keserav Cement Balantnagar P.O.P.L Dist Telangana 505187
6	If the Zoo having a society/foundation/trust for financing and development of the zoo, if so, the details, thereof, attach a separate sheet	NA
7	Approximate population of the city where the zoo is located	6000
8	Year of the Zoo founded	1990
9	Year first opened to public	1990
10	Mission Statement of the Zoo	
11	Vision Statement of the Zoo	
12	The day on which the zoo closed to public	Every Monday
13	Last Recognition valid up to and evaluated by (mention name of the team members)	Dr. S. Nagareddy 02-11-2015
14	Whether your zoo is member of WAZA or any other such organizations, if so, provide details	-
15	Officers present during the evaluation	1. K.N. Rao factory manager Keserav Cement 2. K. Prasad Horti Keserav Cement
16	• Total no. of animals exhibited by the zoo (during the last evaluation & as on the date of evaluation) • Species exhibited & numbers	29
17	List of Surplus Animals (attach a list)	NO

18	List of additional facilities available at the zoo like and their entrance fees, if any;	N.A												
	1. Nocturnal House	h												
	2. Reptile House	h												
	3. Aquarium	h												
	4. Safari	h												
	5. Boating	h												
	6. Morning Walks	h												
	7. Train Ride	h												
	9. Elephant Ride etc	h												
	10. Others, specify	h												
19	No. of visitors (during the current and last three financial year)	2014-2015 12500	2015-2016 18600	2016-2017 15000										
20	Budget of the zoo (last three years) (attach separate sheet if required)	2014-2015 - 13500 / Month	2015-2016 - 15000 / Month	2016-2017 - 162000 / year 180000 / year 2,40,000 / year										
21	Revenue earned (last three years)	2014-2015	2015-2016	2016-2017										
22	Utilization of financial Assistance received from the CZA during last three years and its utilization	<table border="1"> <thead> <tr> <th>Year</th> <th>Funds Received From CZA</th> <th>Amount Spent With Item Wise Details</th> <th>Savings, if any</th> <th>Remarks Utilization Certificates Pending, if any, Provide Details</th> </tr> </thead> <tbody> <tr> <td colspan="5">Attach a Separate Sheet as Annexure:-</td> </tr> </tbody> </table>			Year	Funds Received From CZA	Amount Spent With Item Wise Details	Savings, if any	Remarks Utilization Certificates Pending, if any, Provide Details	Attach a Separate Sheet as Annexure:-				
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Attach a Separate Sheet as Annexure:-														

1  
K. Prasad  
6/10/17



**PART-II**

**Details on compliance of the conditions stipulated by the Central Zoo Authority  
(as per the earlier letter of grant of recognition issued to the zoo)**

Letter F.No.19-124/93-CZA(4)(Vol.I&II)/349/2016 dated 25.02.2016, F.No.19-124/93-CZA(4)(Vol.I&II)(M)/2374 dated 12.03.2013 and F.No.19-124/93-CZA(4)(Vol.I&II)(M) dated 09.04.2008

Sr. No	Norm No.	Condition Stipulated	Time Period to Comply	Since when pending	Remarks	
					Status with regard to compliance of the conditions as submitted by the Officer-in-charge of the Zoo	Status with regard to compliance as noted physically by the evaluator during the visit
<b>1.General requirements:</b>						
1	10.1(2)	The Deer Park Operator should provide every enclosure with plantation of appropriate species of trees for providing shade and shelter.	Three months	09.04.2008	Yes	
2	10.1(3)	The Deer Park should be closed to the visitors at least once a week.	With immediate effect	09.04.2008	Yes	
3	10.1(3)	The deer should be allowed to enter the small enclosure and remain there for considerable period for viewing by the visitors.	With immediate effect	12.03.2013	Yes	
4	10.1(4)	The boundary wall and chain-link fence should be periodically repaired.	With immediate effect	09.04.2008	Yes	
5	10.1(4)	The Deer Park should ensure that free ranging animals from the adjoining forests like Jackal should not enter the enclosure of Spotted deer. Suitable barriers should be provided to prevent the same.	With immediate effect	12.03.2013	Yes	
6	10.1(7)	The solid wastes and effluents generated in the deer park should be disposed in a manner that causes least adverse environmental impacts.	With immediate effect	12.03.2013	Yes	
<b>3.Development and Planning</b>						
7	10.3(1)	The Deer Park shall prepare a theme based long-term (for a minimum period of 10 years) Master Plan for its development including a Management Plan for next six years giving details of the proposals and activities of development during the period. The copies of the said Plan shall be sent to the Central Zoo Authority. The guidelines circulated by the Central Zoo	By 31 <sup>st</sup> March, 2009	09.04.2008	The Master plan has been prepared and sent to CZO for approval on 20-01-2017	

		Authority with regard to preparation of the Master Plan should be strictly followed.				
8	10.3(1)	Follow up is required to get the Master Plan approved from the Central Zoo Authority.	As early as possible	25.02.2016	Yes	
9	10.3(6)	The Deer Park Operator should prepare a Collection Plan of the animals to be housed and displayed in the Park, keeping due regard to the availability of land, water, electricity and climatic conditions of the area.	Six months	09.04.2008		
10	10.3(6)	The number of spotted deer housed at the Deer Park, should not exceed the carrying capacity of 30 animals proposed in the Master Plan.	With immediate effect	12.03.2013	Yes	
11	10.3(6)	The Deer Park Operator shall not acquire any animal without the permission of the Chief Wildlife Warden under Section 11(1)(a) and the Central Zoo Authority under Section 381 of the Act.	With immediate effect	09.04.2008	Yes	
<b>4. Animal housing, display of animals and animal enclosures:</b>						
12	10.4(3)	The entry gate to the Deer Park should be double gate with proper locking system.	With immediate effect	12.03.2013	Yes	
13	10.4(3)	There is a cement slope on either side of the gate which is slippery may cause injury to the animals. Should be made rough surface / small steps to be created.	3 months	25.02.2016	Yes	
14	10.4(3)	About 30 mts barricade is required all along the chain-link mesh towards the main road from where visitors' viewing shall be safe to animals.	6 months	25.02.2016	Yes	
15	10.4(9)	The animal enclosures in the Deer Park should be so designed as to fully ensure the safety of the animals and care takers. Every enclosure should be provided appropriate stand-off barriers and adequate warning signs for keeping the visitors at the safe distance of the animals.	With immediate effect	09.04.2008	Yes	
16	10.4(10)	The Deer Park should provide signage containing biological information about the animals.	Within three months	09.04.2008		
<b>5. Upkeep and healthcare of animals:</b>						
17	10.5(2)	The Deer Park Operator should ensure timely supply of wholesome and unadulterated food in sufficient quantity to each animal as required.	With immediate effect	09.04.2008	Yes	

18	10.5(2)	The Deer Park Operator should make available round the clock supply of water for drinking purpose in each enclosure.	With immediate effect	09.04.2008	yes	
19	10.5(3)	The Deer Park authority should provide additional water troughs in the large enclosure where deer are housed.	With immediate effect	12.03.2013	yes	
20	10.5(3)	Hanging of salt /mineral blocks for licking at a convenient different height for Deer is better than present practice of keeping on the cement ground.	2 months	25.02.2016	yes	
21	10.5(4)	The Deer Park should provide additional kraal/ feeding shed with <i>Kucha</i> floor for feeding the animals.	With immediate effect	12.03.2013	yes	
22	10.5(5)	Regularly the solid and liquid wastes should be removed from the open enclosure during the rainy season extra care must be taken to avoid the stagnation of waste.	Immediately	25.02.2016	yes	
23	10.5(5)	Sufficient length of footbath is necessary around the feeding and water trough which will help in dis-infecting the feet during disease /ailment in animals.	2 months	25.02.2016	yes	
24	10.5(6)	The Veterinary Doctor should be directed to make more frequent visits and keep a close watch on general behaviour and health parameters.	With immediate effect	12.03.2013	yes	
25	10.5(6)	The animals shall be handled only by the staff having appropriate experience and training in handling the animals. Every care shall be taken to avoid dis-comfort / behavioural stress or physical harm to any animal.	With immediate effect	09.04.2008	yes	
26	10.5(8)	The animals should be screened for parasitic loads as per written schedule prepared by the zoo in consultation with the veterinary officer and prophylactic medicines administered as per clinical requirements and vaccination of animals against infectious diseases shall also be done, as per the schedule prescribed by the Veterinary Officer from time to time.	With immediate effect	12.03.2013	yes	
27	10.5(9)	All staff involved with upkeep and healthcare of zoo animals shall be screened against zoonotic diseases once every six months	With immediate effect	09.04.2008	yes	

		Park Operator shall be responsible for ensuring that the number of animals of any species does not go beyond the holding capacity of the enclosures available in the Zoo and housing standards are not compromised for keeping the excessive numbers.				
<b>11. Education and outreach activities:</b>						
35	10.11(1)	Every zoo shall endeavour to educate the visitors to the zoo and the people at large about the significance of wildlife conservation for the general well being of the people and keeping the life support system of nature intact and the efforts shall be made to make people aware about the role played by the zoos in this regard and the ways and means, through which general public can participate and contribute for the same.	With immediate effect	12.03.2013		
36	10.11(1)	A few sign boards are displaying but still more information is required for educating the public in respect of wild animals.	Immediately	25.02.2016		
<b>12. Visitors' facilities:</b>						
37	10.12(1)	The deer Park should provide basic visitor facilities like visitor shed and water points.	With immediate effect	12.03.2013	yes	
38	10.12(1)	Only drinking water and shelter is provided for the visitors but still more facilities like toilets for differently abled persons etc. is required.	3 months	25.02.2016	yes	
39	10.12(2)	The Deer Park should have basic first aid facility readily available in the Deer Park premises.	With immediate effect	12.03.2013	yes	
<b>Rule 11: Maintenance</b>						
40	11(1)	The records of birth, acquisition, disposals and deaths of the animals should be maintained. The inventory of the animals in the Deer Park as on 31 <sup>st</sup> March of every year should be submitted to the Central Zoo Authority by 30 <sup>th</sup> April of the same year.	With immediate effect	09.04.2008	yes	
41	11(1)	A brief summary of the death of animals in the Deer Park for every financial year, along with the reasons of death identified on the basis of the Post-mortem report and diagnostic tests should be submitted to the Central Zoo	With immediate effect	09.04.2008	no	

		and those found positive to any communicable disease shall be provided appropriate treatment till they get cured and freed of the infection and during the period of such treatment, the infected employees shall be kept away from the responsibility of upkeep and healthcare of the animals.				
28	10.5(10)	The detailed record of observation of biological and social behaviour and health status of the animals including feed intake, Medication and Treatment provided in the Keeper's Diary, Daily Reports, Animal History Cards and Treatment Cards, as per standards specified by the Central Zoo Authority.	With immediate effect	09.04.2008	yes	
<b>6. Veterinary and infrastructure facilities:</b>						
29	10.6(1c)	The Deer Park should have a small treatment room/ shed for the treatment of animals.	Within three months	09.04.2008	yes	
30	10.6(6b)	The attending Veterinary Officer of the Deer Park should undergo two days training programme on health and disease management of the Deer in reputed veterinary institution.	Within six months	12.03.2013	yes	
<b>7. Post-mortem and disposal of carcasses of animals:</b>						
31	10.7(1)	Every animal died in the Deer Park shall be subjected to a detailed post-mortem examination by registered veterinarian to determine conclusively the cause of the death.	With immediate effect	09.04.2008	yes	
32	10.7(2)	The findings of the post-mortem examination referred to in sub paragraph (1) shall be recorded in such format as may be prescribed by the Central Zoo Authority and in this regard and shall be maintained for a period of not less than six years.	With immediate effect	09.04.2008	yes	
<b>9. Acquisition and breeding of animals:</b>						
33	10.9(4)	The Deer Park has a single Blackbuck which should be transferred to any other zoo in accordance with norms specified by CZA and after consultation with Chief Wildlife Warden.	Within three months	09.04.2008 and repeated on 12.03.2013		
34	10.9(9)	The Deer Park should keep such number of animals of such species for which appropriate housing facility exists. The Deer	With immediate effect	09.04.2008		

		Authority.				
42	11(2)	The Deer Park Operator should submit Annual Report for activities of the Zoo in respect of each financial year to the Central Zoo Authority.	With immediate effect	09.04.2008	yes	
<b>Non-statutory conditions:</b>						
43		Even though this is a Deer Park, still more basic facilities are required for Post-mortem.		09.04.2008	yes	
44		A register to be maintained to obtain the visitors' comments which in turn helps in improvement of the Deer Park.	Immediately	25.02.2016	yes	

*K. Prasad*  
6/10/17



PART-III

Rule 10: Standards and Norms subject to which recognition under section 38H of the Act shall be considered.

Norm No.	Condition	Detailed status of implementation and enclosure specific recommendation	
		To be filled by the Zoo Director	Comments of the Evaluating Officers
<b>1. General requirements</b>			
1.1	Does the zoo make efforts to maintain population of physically, genetically and behaviourally healthy animals for furthering the cause of wildlife conservation and communicating credible conservation message to the visitors?	This is a Hindu Zoo park having only spotted deer	
	b) If not please specify cases where it is violated? * Only in cases where stud books are maintained		
	(c) If any introduction of new blood has been made after last evaluation to increase the genetic viability of animals.		
1.2	Whether any endeavour has been made for proper landscaping and planting of appropriate species done to provide a naturalistic environment within the zoo?	The enclosure to be an area of 5-31 hectares divided into 3 portions	
	(b) If not indicate cases of deviation.		
1.3	(a) Whether the movement of visitors in the zoo has been regulated in such a manner that zoo animals are not unduly disturbed?	As of now open on all days however the efforts are being done to close the zoo on Monday	
	(b) Is the zoo closed to visitors at least one day in a week?		
	(c) Which day?		
1.4	(a) Whether the zoo has appropriate barriers along the boundary of the zoo in accordance with the standards issued by the Central Zoo Authority, as a safeguard against the un-regulated access of visitors to the zoo and zoo animals and being subjected to injury, pilferage and predation?	Yes. However, stretch of barrier in all main stretch is being plan to be	
	(b) If not which stretch and its length?		
1.5	(a) Is the zoo surrounded by human landscape?	1) the zoo is within in the premises of the staff colony	
	(b) If yes, whether encompassed by a perimeter wall of at least two meter in height from the ground level on both sides?	2) As perimeter covered by wall & wire mesh	
1.6	(a) Is there residential colony constructed within the zoo premises?		
	(b) If yes, whether separated by wall from the zoo premises by a boundary wall with a minimum height of two meters from the ground level?	N.A	
	(c) Is the entry to the residential colony through the zoo premises?	Solid waste are removed periodically	
1.7	(a) What are arrangements for managing solid and liquid waste and storm water?	No rain water storage because of good drainage	
	(b) Is it adequate?		
	(c) What are the short comings?		
1.8	(a) Is the zoo displaying sick, injured, infirm and tethered animals to the visitors?	NO	
	(b) If yes, what are the species and each of their number?	NO	
1.9	a) Is the zoo housing domestic animals within the zoo premises?		
	b) Is there adequate safeguards in place to prevent the entry of domestic livestock, stray animals and pets into the zoo premises?	NO	
<b>2. Administrative &amp; Staffing Pattern</b>			
2.1	Does the zoo have an officer of appropriate rank as "whole time in-charge" of the zoo with powers to take decision and ensure that adequate financial	Yes	

	resources and infrastructural support is made available to such officer for proper housing, upkeep and healthcare of the zoo animals and managing the zoo in a planned manner?																											
2.2	Does the zoo have adequate scientific and technical staff to support the officer-in-charge of the zoo in carrying out the responsibilities of housing, upkeep and healthcare of zoo animals, research and visitor education as specified in the Table below, namely: <table border="1" data-bbox="261 315 857 504"> <thead> <tr> <th>Sl</th> <th>Category of staff</th> <th>Large zoo</th> <th>Medium zoo</th> <th>Small zoo</th> </tr> </thead> <tbody> <tr> <td></td> <td>Curator</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td></td> <td>Veterinarian</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td></td> <td>Education officer</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>Biologist</td> <td>1</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Sl	Category of staff	Large zoo	Medium zoo	Small zoo		Curator	1	1	1		Veterinarian	2	1	1		Education officer	1	1			Biologist	1	1	1	N.A as there is a Mini zoo panel	
Sl	Category of staff	Large zoo	Medium zoo	Small zoo																								
	Curator	1	1	1																								
	Veterinarian	2	1	1																								
	Education officer	1	1																									
	Biologist	1	1	1																								
2.3	If the scientific and technical posts are filled by direct recruitment, does the recruitment rule for such posts provide for their career progression including the benefit of flexible complementing scheme for their promotions?	N.A																										
2.4	In the event of emergency, what is the response time when the veterinarian is off the premises (i.e. distance between officer, residence and zoo)	within the campus 2k.m																										
<b>3. Development and planning</b>																												
3.1	(a) Has the zoo prepared and got the master plan approved by the Central Zoo Authority? (b) If not, what is the stage?	The master plan has prepared and sent for approval																										
3.2	(a) Has at least 30% of the area earmarked for the zoo been kept under green belt and natural vegetation and the area for animal housing does not exceed 30% area of the zoo? (b) If not, approx what percentage?	Yes About 80% is under greenery																										
3.3	(a) Have all 'pucca' buildings including the visitor facilities been planned and located in such a manner that the natural landscape of the zoo have not been masked and the cleanliness and hygiene of the zoo is not been affected due to such animal enclosures/structures? (b) If not what improvements are suggested?	N.A																										
3.4	Has the zoo prepared a collection plan in consultation with the Central Zoo Authority, indicating the names of the species and maximum number of animals of each species to be housed in the zoo, having due regard to the congeniality of the climatic conditions of the locality for the general health and well being of the species, availability of space and infrastructural support for proper upkeep and healthcare of the species, proximity of the zoo to the habitat range of the species and the past record of the zoo in management and breeding of the species and the zoo is not compromising on housing and upkeep standards of animals for accommodating new species or additional animals of the species in its collection?	NO																										
3.5	(a) Has the zoo accepted any rescued animal for which it does not have appropriately designed enclosure and upkeep facilities as well as the facilities for keeping it in isolation during quarantine period? (b) If yes which species and from where received? (c) The location of quarantine and isolation area?	NO																										
3.6	a) Has the zoo accepted any rescued animal for housing? b) If so what is the species and number? c) Has the details been reported to CWLW of the state including a detailed report regarding the source from which the animal has been received, legality of its acquisition and the facilities available at the zoo for housing, upkeep and healthcare? d) If the rescued animal pertains to an endangered species whether a copy of	NO																										

	the report has been sent to the Central Zoo Authority ?		
3.7	(a) Whether the Central Zoo Authority has advised to transfer any animal to a particular zoo for augmenting the number of founder animals for the conservation breeding program?	Yes efforts are being taken to transfer	
	(b) Whether the same has been complied with?		
	(c) If not, why?		
<b>4. Animal Housing, display of animals &amp; animal enclosures</b>			
4.1	(a) Are the animals displayed in nature immersing (naturalistic) enclosures?	Yes total 3 enclosures	
	(b) How many such enclosures for which species exist?		
4.2	(a) If the designs and dimensions of various enclosures have been decided having due regard to the biological behavior of the species and the number of animals to be housed	Yes	
4.3	(a) Are the enclosures safe and secure for the animals, animal keepers and the visitors and has requisite space for free movement, exercise and expression of their natural behavior?	Yes	
	(b) If not, in which cases?		
4.4	(a) Is adequate space available to the animals in order to maintain safe distance from the dominant animals in the group or herd?	Yes	
	(b) If not, in which cases?		
4.5	Which animals are kept in substandard enclosures as per CZA specification?	N.A	
4.6	(a) Has efforts been made to enrich the environment of the enclosures to meet the species specific behavioural requirements of the animals in accordance with the standards specified by the Central Zoo Authority?	Yes	
	(b) Where are the deviations?		
4.7	(a) Has adequate screening been provided between adjacent enclosures to safeguard against the animals getting unduly excited or stressed due to visibility of animals housed in these enclosures?	N.A	
	(b) What are the deviations?		
4.8	(a) Has any new enclosure for endangered species constructed without prior approval of the Central Zoo Authority?	N.A	
	(b) If yes, which ones and why?		
4.9	(a) Has the zoo provided appropriately designed and effective standoff barriers at every animal display enclosure to regulate the movement of visitors in the zoo in a manner that facilitates the visitors in getting unobstructed view of wild animals, without reaching in the vicinity or proximity of the animals and getting the opportunity to physically touch or provoke the animals and are there adequate sign boards so as to give warning to the visitors to keep a safe distance from the animals?	Yes	
	(b) Where are the deviations?		
4.10	(a) Have appropriate signage been provided with relevant information on the biology, behavior and the population status of the species in the wild at every display enclosure?	Yes	
	(b) If any deviations, details thereof.		
	(c) In case of large and medium zoos whether interactive interpretation facilities have been provided for the purpose of explaining behaviour and biology of the species displayed in the enclosure?		
	(d) Details thereof.		
<b>5. Upkeep and healthcare of animals</b>			
5.1	<b>Enclosures and animal facilities</b> (a) Whether the animals in its collection are maintained in socially and behaviorally viable groups?	Yes	

	(b) If any animal is separated from the group, the justification for the same and whether the animals, so separated, have been housed in accordance with standards specified by the Central Zoo Authority in this regard.		
	(c) Whether the food containers and water bowls are cleaned and disinfected on daily basis?		
	(d) Whether grills and floor of feeding cells, night shelters and chain link fence of outdoor enclosures are being disinfected on routine basis.		
	(e) Whether perches and shelves are cleaned regularly and kept free of faeces and urine?		
	(f) Whether dirt substrates in outdoor planted exhibits are raked and spot-cleaned periodically?		
	(g) Whether the zoo has provision of secondary holding areas for safe movement of animals from primary enclosures for cleaning/ feeding/ medical procedures?		
	(h) Provision of footbath of adequate size with proper disinfectant at entry and exit points of animal house is provided or not?		
	(i) Whether the indoor exhibits have separate ventilation system between exhibits and visitors area to reduce the potentials of disease transmission, in case of reptile and nocturnal animal houses?		
	(j) Whether the drainage system is covered properly and away from animal houses?		
5.2	<b>Nutrition and food hygiene</b>		
	<b>General</b>	yes	
	1. Are the animals ensured timely supply of :		
	(a) adequate quality feed as per species specific diet of such a composition and in such quantities that nutritional and physiological requirement of each animal is fully met and no animal remains under-nourished on account of dominant animals not permitting other animals getting their share of the feed?	yes	
	(b) Is round the clock supply of potable water to all the animals is ensured?	yes	
	2. Whether inventory of daily received and distribution record of food items is maintained?	yes	
	3. Whether the storage conditions of the food items are appropriate (free from moisture, moulds and pests)?	yes	
	4. Whether the food storage facilities and working platforms are cleaned and disinfected on regular basis?	yes	
	5. Whether the regular inspection of food items is being done for its quality and freshness and transported hygienically to the respective enclosures?	yes	
	6. Whether random food and water samples are being tested periodically for microbiological, toxicological and any other contaminants at recognized laboratory		
	<b>Carnivore food and hygiene</b>		
	1. Whether the meat house is fly proof and pest free and located at a reasonable distance from the feed store and kitchen?		
	2. Whether the zoo maintains strict hygienic conditions in the entire food stream, from the butchery to feeding platforms in order to prevent food contamination and overgrowth of potential pathogenic bacteria?	N.A	
	3. Whether the zoo has a sufficient size functioning freezer in the meat processing facility for storage of meat products and to keep cold until it is fed?	4	
	4. Whether the meat handlers entering the facility change into a clean and disinfected boots and coveralls?	4	
	5. Whether the meat handlers use clean gloves when handling the meat?	4	
	6. Whether the meat preparation facility is thoroughly cleaned and disinfected on regular basis after the meat preparation is completed?	4	

	7. Whether there is a covered drainage system to prevent wastes and water from the meat preparation facility from draining onto the ground surrounding the facility where foot traffic will carry pathogens around and where wildlife may become exposed to the waste?		
	8. Whether the meat is fed on a clean and disinfected surface and at a time when the animal will consume it as quickly as possible?		
	9. Whether the keepers use clean gloves, if they handle the meat prior to feeding?		
	<b>Food distribution</b> 1. (a) Is the timing of distribution of food, placement of food and way of distribution of food to the animals regulated in such a manner that the animals get maximum opportunity to express natural instincts and skills and behaviour related to feeding?		
	<b>Removal of unused feed and excreta</b> Are the left over feed, excreta of animals and all other wastes are removed promptly from the feeding cells and kraals and the feeding cells and kraals are washed and disinfected as per the advice of the authorized veterinary officers and the solid and the liquid waste generated during the process are disposed off in such manner that has no adverse impact on the hygiene and cleanliness of the zoo and the landscape surrounding the zoo?		
	(a) In which cases improvement is recommended?		
	(b) Are the dimensions and designs of the feeding cells and kraal as per the standards specified by the Central Zoo Authority?		
	(c) Cases of deviation, if any?		
5.3	<b>Visual observation on daily activity pattern of animals and preventive healthcare</b> 1. (a) Do the curatorial and the veterinary staff keep a close watch on the general behavior and health parameters of the zoo animals?	Yes	
	(b) Are the animals handled only by the staff having experience and training in handling the individual animals?	Yes	
	(c) Whether periodical health monitoring of animals have been carried out regularly?		
	2. If any animal shows any sign of dullness, loss of appetite, injury or abnormal behaviour: is the animal thoroughly assessed and provided medical attention promptly as per the standards specified by the Central Zoo Authority in this regard from time to time and the direction of the zoo administration?	Yes	
	3. Is every zoo animal screened for parasitic loads as per written schedule prepared by the zoo in consultation with the veterinary officer and prophylactic medicines administered as per clinical requirements and vaccination of animals against infectious diseases are also done, as per the schedule prescribed by the Veterinary Officer from time to time?	Yes	
	4. Whether the zoo have written schedule of vaccination and de-worming of different species of the zoo animals and displayed at the enclosure site?	Yes	
	5. Does the zoo maintains detailed records of observations of biological and social behaviour and health status of the animals including feed intake, medication and treatment provided in the keeper's diary, daily reports, animal history cards and treatment cards, as per standards specified by the Central Zoo Authority?	Yes	
	6. Are all staff involved with upkeep and healthcare of zoo animals screened against zoonotic diseases once every year and those found positive to any communicable disease are provided appropriate treatment till they get cured and become free of the infection and during the period of such treatment, the infected employees are kept away from the responsibility of upkeep and healthcare of the animals?	Yes	
	7. Whether the zoo has clause of employing a zoo keeper temporarily ailing for usefully utilizing them elsewhere in the zoo in the intervening period.	Two hand keeper	

8. Every zoo should have formal linkages through a MoU on healthcare, preventive, health management, surgical interventions, clinical tests, disease diagnosis and consultation in treatment and management during the period of convalescence.		
(a) Whether the zoo has any such MoU with the nearest veterinary institution?	How ever regularly	visiting with local vet may
(b) Whether the MoU contains names and contact details of person/ persons to be contacted to assist zoo management in all aspects in health management for zoo animals?		

### 6. Veterinary and Infrastructure Facilities

6.1	<b>Zoo hospital</b>		
	(a) Are veterinary facilities appropriate to the size and type of the animal collection of the zoo including isolation ward and quarantine facilities located away from the hospital and other animal collections?	NO	
	(b) Does the zoo have a full fledged veterinary unit with all basic diagnostic facilities, pharmacy, diagnostic and treatment room, comprehensive range of drugs, operation theatre and in-patient wards?	NO	
	(c) Are there suitable and appropriately designed holding facilities for animals requiring extensive medical care?	YES	
	(d) Whether the veterinary facilities have a separate area / room for equipment cleaning and sterilization?	NO	
	(e) Whether the zoo has basic hospital and monitoring equipment:	NO	
	✓ refrigerator (50C)		
	✓ stethoscope		
	✓ freezer (-170C)		
	✓ scales for weighing animals		
	✓ transponders for animal ID and transponder reader		
	✓ ultra-low freezer (-700C) for serum banking and diagnostic samples		
	✓ ophthalmoscope		
	✓ otoscope,		
	✓ thermometer		
	✓ capture equipment (i.e. darts and dart projectors)		
	✓ laryngoscope and blades		
	✓ endotracheal tubes		
	✓ oxygen support (regulators and demand valves)		
	✓ inhalation anesthesia machine that can support a tiger-sized animal		
	✓ isoflurane vaporizer		
	✓ anesthesia monitoring equipment (single or multiparameter)		
	✓ pulse oximeter		
	✓ ECG (blood pressure monitor included)		
	✓ basic surgery instruments		
	✓ surgical light		
	✓ autoclave		
	✓ basic dental instruments		

	(f) Whether the zoo has basic diagnostic support to enable and make rapid assessments of physiologic status of sick and injured animals:		
	✓ Hematocrit and hematocrit centrifuge for Packet Cell Volume		
	✓ Hand-held refractometer for Total Serum Solids		
	✓ Hemacytometer and associated items for Manual RBC and WBC counts		
	✓ Standard laboratory centrifuge, microscope and glassware for Fecal Parasite Examination		
	✓ Standard laboratory centrifuge and glassware for Serum / Plasma separation		
	g) Whether the zoo has arrangements of reference laboratory support and rapid transportation of diagnostic samples to nearest veterinary institution equipped with following facilities: <ul style="list-style-type: none"> <li>✓ Automated blood cell counting</li> <li>✓ Clinical chemistry</li> <li>✓ Bacterial culture and antibiotic susceptibility</li> <li>✓ Viral isolation and identification</li> <li>✓ Antibody/ antigen serology</li> <li>✓ Pathogen identification through ELISA or PCR</li> <li>✓ Toxic agent analysis</li> <li>✓ Parasite identification</li> </ul>		
	(h) Has the zoo acquired sophisticated and costly diagnostic equipments for which there are no technically qualified manpower to operate and use the same?		
	(i) Whether the veterinarian and technician have requisite training for equipment use and data analysis?		
	(j) Are there proper storage facilities for various medicaments and chemical immobilization drugs?		
	(k) If a mini zoo, does it have at least facilities of a treatment room?		
6.2	<b>Animal restraint</b>		
	(1) Whether the zoo has appropriate animal restraint equipment, accessories and drugs ?		
	(2) Whether the animal restraint equipment are being kept and maintained as per standard protocol ?		
	(3) Whether the veterinarian and technician have requisite training in equipment use and animal restraint techniques including handling of drugs and management of human emergencies?		
	(4) Is it the restraint of an animal requiring chemical immobilization done exercising utmost care and following the standards specified in this regard by the Central Zoo Authority from time to time?		
	(5) Whether the veterinarian has requisite training in Animal immobilization with specific reference to wildlife?		
	(6) Is there a dedicated refrigerator for storage of chemical restraint drugs?		

6.3	<b>Veterinary Support staff</b> Does the zoo have the zoo veterinary support staff as specified in the Table below ; namely –	NO																
	<table border="1"> <thead> <tr> <th>S.No.</th> <th>Support staff</th> <th>Large Zoo</th> <th>Medium Zoo</th> <th>Small Zoo</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Lab Assistant (Technician)</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td>Stockman / compounder</td> <td>2</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	S.No.	Support staff	Large Zoo	Medium Zoo	Small Zoo	1	Lab Assistant (Technician)	1	1		2	Stockman / compounder	2	1	1		
S.No.	Support staff	Large Zoo	Medium Zoo	Small Zoo														
1	Lab Assistant (Technician)	1	1															
2	Stockman / compounder	2	1	1														
6.4	<b>Wildlife veterinary medical education and training</b> 1. Does the zoo have linkages with the eminent institutions and organizations working in the field of wild animal healthcare with the objectives to provide for : a) Assistance in scientific diagnosis of diseases of serious nature and advice on the effective remedial treatment. b) Training and upgrading technical skills of animal health staff. c) Development of protocols for preventive medicines and vaccination	YES supervisor attendend/ Training Programme																
	2. Whether the veterinary officer has requisite training/education in wildlife medicine/health ?																	
	3. Whether the zoo has any training programme/residency for skill development for the zoo veterinary medical officer in wildlife medicine in a large foreign zoo ?																	
<b>7. Post-mortem and disposal of carcasses of animals</b>																		
7.1	<b>Post mortem facilities</b> 1. Does the zoo; unless it is mini zoo have a modern post mortem room, equipped with sufficient light and post mortem equipment? 2. Whether the zoo veterinarian has specialized knowledge and skills in wildlife pathology? 3. Is there availability of pathology support from nearest veterinary institution to provide specialized capabilities and consultation particularly for post mortem of an endangered species requiring definitive diagnosis and collection of samples in a scientific way and as per protocols required by reference laboratories / veterinary institute? 4. Does every animal dying in the zoo is being subjected to a detailed post mortem examination by registered veterinarian to determine conclusively the cause of the death?	YES																
7.2	Are the findings of the post-mortem examination referred to in sub-paragraph (1) recorded in such format as have been prescribed by Central Zoo Authority in this regard and is it maintained for a period of not less than six years?																	
7.3	1. In the event of the post mortem being inconclusive and no specific reason for death is identified, do the zoo authorities send the samples of the tissues and organs, blood, viscera etc. for further examination to the qualified diagnostic laboratory having adequate specialization for further investigation and identifying the cause of death? 2. Whether the post mortem report is corroborated with other diagnostic findings in consultation with specialized reference laboratories / veterinary institutions?																	
7.4	Does the zoo ensure that the carcasses of the animals, after the post-mortem has been conducted, is disposed off by burying or burning in a manner that does not have any adverse impact on the hygiene and cleanliness of the zoo ? a) Are the carcasses of large cats disposed off by burning in the presence of Director of the zoo or any officer in the next rank to him and authorized by him in this behalf? b) Are the carcasses of animals which died due to Anthrax or such other communicable diseases not opened and subjected to post-mortem, as a safeguard against spread of the disease and they are buried intact?																	

8. Euthanasia		
8.1	No animal in the zoo shall be euthanized unless doing so is essential for relieving from suffering from incurable disease /condition as per the norms of CZA.	N.A
9. Acquisition and breeding of animals		
9.1	Are animals of various species kept and maintained in social viable groups and with such a sex ratio that optimizes breeding and helps in developing a self-sustaining population of each species?	Yes
9.2	(a) Has the zoo acquired animals based on scientific assessment of its lineage and genetic relatedness to Safeguard against ill effects of inbreeding on the zoo population, through exchange, loaning and getting gifts of animals from other zoos?	N.A
	(b) If there is any deviation, details thereof.	
9.3	(a) Has the zoo acquired single animals or genetically non-viable number of animals unless such acquisition is necessary for pairing of single animals or making the group genetically/ biologically viable?	single
	(b) Please indicate such cases.	
9.4	(a) Has the zoo tried to acquire mates for single and unpaired animals on priority basis and in the event of any zoo failing to find a mate for single and unpaired animal within a period of six months, the unpaired or single animal have been transferred or exchanged or given on breeding loan to any other zoo in accordance with the norms specified by the Central Zoo Authority in this regard?	
	(b) Please indicate unpaired species, its sex and for the period it has been kept unpaired.	
9.5	Has the zoo transported animals from one place to another and if so CZA transportation protocols were followed? For the purpose of transportation of animals from one place to another, are the standards specified in this regard by the CZA complied with.	NO
9.6	a. Has the Central Zoo Authority assigned any endangered species for Conservation Breeding Programme to the zoo, if so please indicate?	
	b. If a scientific conservation breeding plan species recovery plans for the species have been prepared or not? If the plan is being followed by the zoo?	NO
	c. Is the Conservation Breeding Facility situated in off display area of the zoo?	
	d. Has the founder population of the species bred in zoo, indicate numbers bred in the zoo?	
	e. Have the animals been conditioned for reintroduction in the wild?	
	f. Has there been sufficient technical inputs from the species experts? Please elaborate the responsibility of conservation breeding of the identified critically endangered species to identified zoos having technical capabilities and housing facilities, preferably close to the distribution range of the species and every zoo shall help the identified zoos in implementing the breeding programme. Please indicate specific cases for the zoo.	NO
9.7	Has the zoo spared surplus animals from the breeding population to the participating zoos for display purposes on the basis of quality of housing and infrastructural facilities available with the concerned zoos?	NO
9.8	With a view to prevent inbreeding and the loss of heterozygosity is the zoo maintaining the animal history cards & stud and herd book for the animals of endangered species housed in the zoo and putting appropriate identification marks for transfer or exchange animals with other zoos?	NO
9.9	a. Is the zoo limiting the number of animals of each species within the limits set by the animal collection plan of the zoo by implementing appropriate population control measures like segregation of sexes, vasectomy, tubectomy and implantation of pellets etc., with due consideration of the health and welfare of the animals and interest of their long term survival? Please indicate	<del>NO</del> Yes

	species wise numbers over the last three years.	Population control by way of separation of males & females has been taken up	
	b. What methods of population control were employed and comparative success?		
9.10	Has the zoo implemented disaster management plan, training and mock drills to prevent accidents in zoo in accordance with master plan?	N.A	
	Indicate action taken for safeguard against any accident/ escape of the zoo animals from the premises of the zoo and in the event of any accidental escape, immediate action was taken to retrieve the escaped animals?		
9.11	Has the zoo released any surplus captive animal into the wild except in accordance with the norms specified by the Central Zoo Authority in this regard? Annex details	U D	
9.12	Is the hybridization of species or races of same species taking place in the zoo? Which species?	U D	
<b>10. Research Activities</b>			
10.1	a. Has the zoo implemented a research plan as indicated in the Master Plan and conducted research on the prioritized species and specific areas of concern?	U D	
	b. Has the zoo accessed grants from CZA or other institutions/agencies for the Research Project. Indicate details and outcomes?	U D	
	c. Is the zoo carrying out collaborative research for evolving innovative strategies for providing the animals housed in the zoo a better quality of life, enhanced longevity, higher genetic and behavioural viability and improved reproduction potential and to achieve the said goal. (Every zoo, other than mini zoos, shall make arrangements for meticulous recording of data on the social behaviour, group dynamics and reproductive biology of the species housed in the zoo and developing a data base to be shared with other zoos and the identified institutions, in accordance with norms specified by the Central Zoo Authority in this regard)	N D	
	d. Research paper/ technical reports published. Details of its implementation.		
<b>11. Education and Outreach Activities</b>			
11.1	a. Has the zoo made efforts to educate the visitors to the zoo and the people at large about the significance of wildlife conservation for the general well-being of the people and keeping the life support system of nature intact and to make people aware about the role played by the zoos in this regard and the ways and means through which general public can participate and contribute for the same?	Yes However News papers are being prepared	
	b. Whether the zoo has appropriate signages and interpretation facilities, Souvenir Shop, Library Facility accessible, dedicated Website and carrying out the Outreach and awareness, Guided Tour, celebrations of various events	N D	
11.2	Is physical handling or performances by animals permitted as part of educational activity?		
<b>12. Visitor Facilities</b>			
12.1	Is the zoo providing adequate civic facilities for visitors at appropriate and convenient places in the zoo including physically disadvantaged persons and such facilities are so located that they do not mask or impact the view of enclosures?	Yes	
	a. Drinking Water		
	b. Urinals		
	c. Ramps		
	d. Wheel chairs		
	e. Battery Operated vehicles		
	f. Lawns		

	g. Visitor shed		
	h. Kiosks		
	i. rain shelters		
	j. cloak rooms for the visitors		
	k. zoo visitor guides		
	i. Public Announcement systems, fire alarm during emergency.		
12.2	Does the zoo have first aid facilities including snake anti-venom and life saving drugs, readily available in the zoo premises?	yes	
12.3	Is the zoo making arrangements for providing access to the physically challenged persons for viewing wild animals at various animal enclosures?	NO	



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 K. Prasad  
 (K. PRASAD)  
 Horticulture