

**BHAGWAN BIRSA BIOLOGICAL PARK, ORMANJHI, RANCH
JHARKHAND ZOO AUTHORITY**

(Registered under the Society Registration Act, 1860 vide Registration number 143/2010-11)

The Department of Forests, Environment & Climate Change

Govt. of Jharkhand

Email : jharkhandzooauthority@gmail.com

Annual Report for the year
2018-19



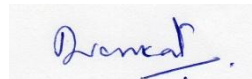
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1. Report of the Officer-in-charge

- (i) Bhagwan Birsa Biological Park, Ranchi is one of the most beautiful and progressive zoos in India having 104 ha of area of mildly undulating topography with natural dry deciduous Sal forests & water bodies in and around it. It provides a natural habitat to wild animals to live in peace and harmony with the nature. It is situated on the Ranchi-Ramgarah section of National Highway 33, on the outskirts of Ranchi and about 20 kms from it. It is separated by the NH in two unequal halves, the smaller part being the botanical section of 23 Ha while that of 81 ha, larger one being the zoological section. This zoo was inaugurated on 26th January 1994. Most of the animals of this zoo live in open, large moated areas surrounded by natural vegetation providing them a feeling of living in their natural habitat.
- (ii) The main objective of Bhagwan Birsa Biological Park is to facilitate the linkage between *ex-situ* and *in-situ* conservation of flora & fauna, breeding and rearing of endangered faunal species with the object of saving them from extinction, awareness and education in wildlife conservation through zoo-people interface.
- (iii) It is one of the major tourist attractions in Jharkhand, with an annual foot fall of about 8 lakhs. The zoo has about 1350 number of animals representing 83 different species of Mammals, Reptiles and Birds. The animals are kept in an environment which is similar to their natural habitat and the same helps them grow and breed well. The major breeding species are Himalyan Black Bear, Sloth Bear, Leopard Cat, Royal Bengal Tiger, Jungle Cat, Jackal, Fox, Stripped Hyena, Spotted Deer, Barking Deer, Sambar, Nilgai, Black Buck, Indian Gour, Hippopotamus, Gangetic Gharial, Emu, Ostrich, Indian Peafowl and different species of pheasants.
- (iv) Zoo also rehabilitates and takes care of orphaned/injured/stray/sick animals, rescued from wild or from circuses, derecognized zoos etc.
- (v) The zoo is managed by Jharkhand Zoo Authority, an autonomous body and the annual plan of zoo is approved by the governing body. The funds of the authority consist of grants from the state government, revenues received from visitor ticket sales and other miscellaneous revenues.
- (vi) Green fodder is grown organically in-house within the park, which ensures fresh, nutritious and pollution free fodder to the herbivores of the zoo.
- (vii) The Biological Park also has an aquarium which is perhaps the largest fresh water aquarium in the country housing about 1500 number of fishes representing 120 Sps in 58 display tanks, with an annual footfall of about 1.5 lakh visitors.



(D. Venkateswarlu, IFS)

Chief Conservator of Forests and Director
Bhagwan Birsa Biological Park, Ranchi

2. History of the Zoo

Bhagwan Birsa Biological Park was established by the erstwhile Govt. of Bihar over an area of 104 Ha. of notified Protected Forest in Chakla village, Ormanjhi block, Ranchi district, with the objective of conservation of endangered and threatened flora and fauna and to develop among visitors an empathy for wild animals and motivate them to support the cause of conservation of wildlife. After the decision of the erstwhile Govt. of Bihar for establishment of zoo, the actual construction etc got started in the year 1986-87 and the zoo was formally opened to visitors on 26.01.1994. The zoo has been named after Birsa Munda, a legendary tribal freedom fighter of Chotanagpur area where in he is revered as Bhagwan and hence the name of this zoo “Bhagwan Birsa Biological Park”. Initially the zoo was recognised as a small zoo but in the year 2013 it was upgraded to a medium zoo. The zoo had been under the direct management of state government up to 23.10.2009 and the revenue collected used to be deposited in the state exchequer. However the government of Jharkhand vide its notification no. WL/21/2007/3361, dated 23.10.2009 constituted an autonomous body namely Jharkhand Zoo Authority for better management of Bhagwan Birsa Biological Park, allowing the authority to keep and manage by itself the revenues generated for fulfilling the objects of the zoo, through annual plan of operations duly approved by the governing body of the Authority.

3. Vision

Zoo and aquariums with their unique resource of live animals, their expertise and their links to field conservation will be recognized as leaders and mentors in formal and informal education for conservation. The educational role of zoos and aquariums will be socially, environmentally and culturally relevant, and by influencing people’s behaviour and values, education will be seen as an important conservation activity. Zoos and aquariums will expand the training of their own staff and of others engaged in-situ and ex-situ work.

4. Mission

Our mission is to provide better upkeep & veterinary care to the inmates of this zoo to ensure their conservation through best management practices and bringing awareness among the people.

5. Objective

Bhagwan Birsa Biological Park has been established with objective of conservation of endangered and threatened flora and fauna and to develop among visitors an empathy for wild animals and motivate them to support the cause of conservation of wildlife.

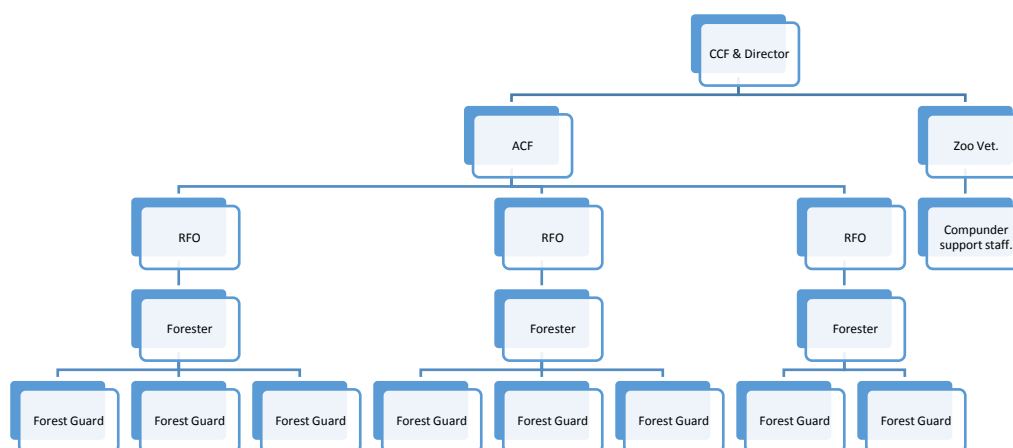
6. About us

S.No.	Particulars	Information
Basic Information about the Zoo		
1	Name of the Zoo	BHAGWAN BIRSA BIOLOGICAL PARK, CHAKLA, ORMANJHI, RANCHI.
2	Year of Establishment	1994
3	Address of the Zoo	Vill & P.O- Chakla, Ormanjhi, Distt- Ranchi – 835219 (Jharkhand)
4	State	JHARKHAND
5	Telephone Number	9006216090
6	Fax Number	-
7	E-mail address	jharkhandzooauthority@gmail.com
8	Website	-
9	Distance from nearest	Airport: Birsa Munda Airport, Ranchi. 24 km.
		Railway Station: Ranchi Raily Station 20 km
		Bus Stand: Khadgarha Bus Stand 15 km.
10	Recognition Valid upto (Date)	September, 2020
11	Category of zoo	Medium
12	Area (in Hectares)	104 Hac (Divided into two parts 83 Hac + 21 Hac)
13	Number of Visitors (Financial Year)	Adult : 565077
		Children : 106673

S.No.	Particulars	Information
		Total Indian : 649819
		Total Foreigners : NIL
		Total Visitors: 671750
14	Visitors' Facilities Available in Zoo	Rest sheds, R.O. Drinking water, Lavatory, Battery Operated Vehicle, Wheel- Chair, Boating, Canteen, Parking. Etc.
15	Weekly Closure Day of the Zoo	Monday
Management Personnel of the zoo		
16	Name with designation of the Officer in-charge	Chief Conservator Forest & Director -Cum- Member Secretary, Jharkhand Zoo Authority.
	Name of the Veterinary Officer	Dr. Ajay Kumar.
	Name of the Curator/Range Forest Officers	(i) Mr. N. Choudhury. (ii) Mr. R.C. Paswan (iii) Mr. R.L. Paswan
	Name of the Biologist	-
	Name of the Education Officer	-
	Name of the Compounder/ Lab Assistant	Mr. Brajendra Kumar Singh.

S.No.	Particulars	Information
Owner / Operator of the Zoo		
17	*Name of the Operator	Department of Forest, Environment & Climate Change, Government Of Jharkhand
18	Address of the Operator	Nepal House, Doranda, Ranchi - 834002
19	Contact details/Phone number of Operator	0651-2491669
20	E-mail address of Operator	dysecyfdjharkhand2013@rediffmail.com

7. Organizational Chart



8. Human Resources

Manpower of the Zoo*

Sl.No.	Name of post	Sanctioned strength	In position
1	Chief Conservator of Forests and Director	01	01
2	Asst. Conservator of Forests	01	01
3	Range Forest Officer	03	03
4	Veterinary Doctor	01	01
5	Head clerk	01	01
6	Steno	01	-
7	Assistants	03	02
8	Forester	03	-
9	Forest Guard	08	02
10	Compounder	01	01
11	Driver	02	01
12	Animal keeper-cum-Sweeper	24	14
13	Orderly / Peon	04	01
14	Chowkidar	06	01
15	Mali (Gardener)	05	-
16	Sweeper	03	-
17	Khansama	01	-
Total		68	29

9. Capacity Building of zoo personnel

Sl.No.	Name and designation of the zoo personnel	Subject matter of Training	Period of Training	Name of the Institution where the Training attended
1	Dr. Ajay Kumar, Zoo Vet.	Workshop of Indian Zoo Veterinarians on Theme "Recent Trends in Captive Wild Animals Managements	07.01.2019 to 09.01.2019	Chama Rajendra Zoological Garden Mysuru
2	(i) Arun Kumar, Forest Guard (ii) Puran Pahan, Zoo Keeper	Mahout Training for capacity building	28.01.2019 to 01.02.2019	Assam State Zoo, Guwahati
3	(i) Prakash Anand, Forest Guard (ii) Madan Mahto, Daily Wage	Mahout Training for capacity building	25.03.2019 to 29.03.2019	Assam State Zoo, Guwahati
4	(i) Bholu Mahto, Zoo Keeper (ii) Sri Tetra Munda, Daily Wage	Advancing Bear Care Workshop	03.12.2018 to 06.12.2018	Wildlife SoS Agra Bear Rescue Facility Centre.

10. Zoo Advisory Committee – There is an executive committee which takes all the decisions for running the zoo .

a. Date of constitution - 23.10.2009

b. Members – (1) Pccf WL & CWLW (2) CCF, Wildlife (3) CCF & Director

c. Dates on which Meetings held during the year – 03.05.2018, 07.06.2018, 05.07.2018, 13.08.2018, 24.10.2018

11. Health Advisory Committee– Not constituted.

As and when required Professors of Medicine, Pathology & Surgery of Ranchi Veterinary Collage are called for their advice.

12. Statement of income and expenditure of the Zoo

(A) Details of receipts from Bhagwan Birsa Biological Park - Zoo.

SL. No.	Items	No. of Visitors	Total Revenue received
1.	Adult	507487	19710990.00
2.	Child	75846	1505870.00
3.	School Children	66486	1512785.00
4.	Foreign Visitors	NIL	NIL
5.	Camera Fee	-	32180.00
6.	Snake House	-	1433560.00
7.	Battery operated vehicle	-	970110.00
8.	Boating	-	1283030.00
9.	Canteen	-	546841.00
10.	Parking	-	1933670.00
11.	Revenue received from Forest officer's hostel, Doranda	-	95782.00
12.	Revenue received from Forest Palash Meeting Hall, Doranda	-	154000.00
13	Rent of Sovenir Shop	-	NIL
	Total	649819	29178818.00

(B) Details of receipts from aquarium

SL. No.	Items	No. of Visitors	Total Revenue received
1.	Adult	105643	3169290.00
2.	Child	30504	457525.00
3.	School Children	3586	46520.00
4.	Camera Fee		14110.00
5.	Parking		291000.00
	Total	139733	3978445.00
	Grand Total (A+B)	789552	33157263

(C) Details of Expenditure for 2018-19

क्रम सं०	स्वीकृत APO		
	कार्य विवरणी / व्यय मद	स्वीकृत राशि (लाख रू०)	व्यय राशि (रू०)
1	2	3	4
1	जैविक उद्यान का स्थापना व्यय		
(i)	पदाधिकारियों / कर्मचारियों का वेतन भुगतान	215.00	19252153.00
(ii)	यात्रा व्यय	2.00	240083.00
(iii)	एल०टी०सी० / एच०टी०सी०	2.00	—
(iv)	वर्दी	0.20	40000.00
(v)	कार्यालय व्यय	4.00	368231.32
(vi)	मोटरगाड़ी परिचालन एवं रख-रखाव	5.00	463908.54
(vii)	दूरभाष (मोबाईल / इंटरनेट)	1.50	65834.00
(viii)	विद्युत व्यय (उर्जा प्रभार)	18.00	1781510.00
(ix)	दैनिक मजदूरों की मजदूरी	115.00	10950972.76
(x)	EPF Dues (Nov 2000 to July 2014)	92.00	9180538.00
	उप-योग :-	453.70	42343230.62
2	वन्यप्राणियों का आहार, दवाये एवं अन्य सामग्री	175.00	17333676.95
3	वन्यप्राणियों के लिये हरा-चारा उत्पादन	14.00	1085319.68
4	मछलीघर का एक वर्ष का रख-रखाव	55.00	1213297.00
5	डोरण्डा राँची स्थित पलाश सभागार से संबंधित व्यय		
(i)	सुरक्षा एजेंसी को भुगतान	3.34	334000.00
(ii)	सफाई कर्मी-2 सं०	1.95	186960.00
(iii)	एक जेनरेटर ऑपरेटर-सह- इलेक्ट्रिशियन	1.35	128797.00
(iv)	भवन एवं चहारदीवारी का रख-रखाव / रंग-रोगन	8.00	277331.00
(v)	सभी 13 AC का रख-रखाव	0.65	
(vi)	जेनसेट परिचालन (ईंधन एवं मरम्मति / सर्विसिंग)	2.00	88647.00
(vii)	अग्नि सुरक्षा कार्य	35.00	158356.00
	उपयोग :-	279.29	20806384.63
6	वन पदाधिकारियों का हॉस्टल, डोरण्डा, राँची से संबंधित व्यय		
(i)	माली-1, धोबी-1 एवं खानसामा-1 की मजदूरी	4.03	315757.00
(ii)	दो अटैण्डेड्स की मजदूरी	1.95	93480.00
(iii)	सफाईकर्मी-1 एवं सुरक्षाकर्मी-1 की मजदूरी	2.15	116210.00
(iv)	वार्षिक रख-रखाव (रंगाई-पुताई, बेडशीट, पर्दे, कॉकरीज / उपस्कर, टॉयलेटरीज, AC एवं TV, Tata Sky connection के साथ	12.50	617013.66

(v)	अबाध विद्युत आपूर्ति	1.00	30000.00
(vi)	कैंपस का सौंदर्यीकरण (बागवानी एवं लॉन का अनुरक्षण)	2.00	25000.00
	उप-योग :-	21.13	1197460.66
7	भगवान बिरसा जैविक उद्यान से संबंधित उन्नयन/नये कार्य		
(i)	बटरफलाई पार्क का निर्माण	300.00	
(ii)	इको पार्क निर्माण	100.00	
(iii)	सी0सी0टी0वी0 सर्विलांस व्यवस्था का स्थापना	140.00	
(iv)	मुख्य द्वार का निर्माण	165.00	
(v)	मुख्य द्वार के समीप कैंटीन का निर्माण	25.00	
(vi)	मुख्य द्वार पर Electronic Gate with RIFD System की व्यवस्था	35.00	258680.00
(vii)	वनस्पति प्रभाग में एक जलमीनार का निर्माण (75000 लीटर क्षमता), बोरिंग से मीनार तक पाईप लाइन, डीप बोरिंग एवं पंप का अधिष्ठापन	47.00	4182951.00
(viii)	कृष्ण मृग एवं कोटरा के जर्जर रिटायरिंग सेल्स को तोड़कर नया निर्माण तथा कृष्ण-मृग एवं कोटरा इन्क्लोजर्स के बीच फेंसिंग कार्य।	15.225	1522500.00
(ix)	हिप्पो इन्क्लोजर में पौण्ड का जीर्णोद्धार	12.00	
(x)	नये फीजेंट्री का निर्माण	40.00	
(xi)	प्राइमेट इन्क्लोजर का निर्माण	35.00	
(xii)	स्लो-लारिस इन्क्लोजर का निर्माण	3.00	
(xiii)	एक 10 सीटर बैट्री चालित वाहन का क्रय	8.00	
(xiv)	ब्लैक स्वान इन्क्लोजर का निर्माण-इन्क्लोजर इनरिचमेंट सहित (सॉकरी+फब्वारा)	20.00	630000.00
(xv)	वर्मी कम्पोस्ट प्लांट की स्थापना	2.435	243500.00
(xvi)	मशीन एवं उपकरण	5.00	244300.00
(xvii)	वन्यप्राणी विषय पर फिल्म एवं साहित्य का क्रय	5.00	
(xviii)	अबाध विद्युत आपूर्ति व्यवस्था का संधारण (विद्युतीकरण सहित)	15.50	339926.51
(xix)	बगवानी एवं सौंदर्यीकरण कार्य	16.00	1076929.45
(xx)	जैविक उद्यान के भवन, चहारदीवारी एवं सड़क का अनुरक्षण कार्य :-	60.00	4609568.69
	उप-योग-	1031.50	13108355.65
(xxi)	वन्यप्राणी इन्क्लोजर्स का मरम्मत/उन्नयन/इनरिचमेंट कार्य :-	67.00	5764382.14
(xxii)	पुटुस उन्मूलन कार्य	2.00	108591.83
(xxiii)	वन्यप्राणी आदान-प्रदान एवं परिवहन व्यय	65.00	342000.00
(xxiv)	वन्यप्राणी एवं दर्शक व्यवस्था संबंधी रूटीन, मौसमी एवं विविध कार्य	26.00	1889588.47
(xxv)	पेशेवर एवं कंसल्टेंसी सेवायें (कोर्ट केसेज, CA,	10.00	93344.00

	Architects आदि से संबंधित व्यय)		
(xxvi)	मछलीघर में जलापूर्ति हेतु एक अतिरिक्त डीप बोरिंग, पम्प, पम्प हाउस, ओवरहेड टंकी आदि	3.00	
(xxvii)	प्रचार-प्रसार, वार्षिक प्रतिवेदन का मुद्रण, प्रशिक्षण आदि कार्य	28.00	1010944.00
(xxviii)	पशुपालक-सह-स्वीपर्स एवं दैनिक श्रमिकों के लिय जू-किट का क्रय	10.00	706900.00
	वन क्षेत्र पदाधिकारी का भवन निर्माण	45.00	1748530.00
		उप-योग:-	96.00
		संकल योग:-	1948.62
			89119712.00

13. Daily Feed Schedule of animals

क्रम सं०	वन्यप्राणी	आहार		अभ्युक्ति
		सामग्री	मात्रा (प्रति वयस्क)	
1	2	3	4	5
1	बाघ	महिषमांस (हड्डी रहित)	(i) माह अप्रैल से जुलाई तक - 9 kg (ii) माह अगस्त से मार्च तक - 10 kg	सोमवार का दिन फास्टिंग रहेगा।
2	सिंह	महिषमांस (हड्डी रहित)	(i) माह अप्रैल से जुलाई तक - 9 kg (ii) माह अगस्त से मार्च तक - 10 kg	सोमवार का दिन फास्टिंग रहेगा।
3	तेंदुआ	महिषमांस (हड्डी रहित)	(i) माह अप्रैल से जुलाई तक - 2.5 kg (ii) माह अगस्त से मार्च तक - 3 kg	(i) सोमवार का दिन फास्टिंग रहेगा। (ii) "राजा" नामक तेंदुआ को 0.5 लीटर दूध अलग से प्रत्येक दिन दिया जाएगा।
4.	लकडबग्घा	महिषमांस (हड्डी रहित)	(i) माह अप्रैल से जुलाई तक - 1.75 kg (ii) माह अगस्त से मार्च तक - 2 kg	सोमवार का दिन फास्टिंग रहेगा।
5	सियार	महिषमांस (हड्डी रहित)	500 ग्राम	सोमवार का दिन फास्टिंग रहेगा।
6	लोमड़ी	चिकेन	500 ग्राम	सोमवार का दिन फास्टिंग रहेगा।

7	जंगल बिल्ली	(i) महिषमांस (हड्डी रहित) (ii) चिकेन	500 ग्राम 750 ग्राम	(i) मंगलवार, वृहस्पतिवार एवं शनिवार। (ii) बुध, शुक्र, एवं रविवार। (iii) सोमवार का दिन फास्टिंग रहेगा।
8	लेपर्ड कैट	चिकेन	500 ग्राम	सोमवार का दिन फास्टिंग रहेगा।
9	पेंगोलिन	अंडा (उबालकर) मिल्क पाउडर	2 अद्द 20 ग्राम	दोनो को मैसकर दिया जाएगा।
10	मगरमच्छ	(i) महिषमांस (हड्डी रहित) (ii) हाइब्रिड मंगुर मछली (जिन्दा)	2.00 किलोग्राम 5.00 किलोग्राम	मंगलवार एवं शुक्रवार को (यानि सप्ताह में दो दिन) प्रतिमाह
11	घडियाल	हाइब्रिड मांगुर मछली (जिन्दा)	750 ग्राम	
12	साहिल	चना मकई दर्रा अमरूद / खीरा केला (पका) बैंगन / पत्ता गोभी	50 ग्राम 50 ग्राम 250 ग्राम 500 ग्राम 100 ग्राम	
13	देशी भालू	(i) खीर :- चावल (अरवा मोटा) दूध गुड (ii) अंडा (iii) शहद एवं स्लाइस ब्रेड (iv) तरबूज / शकरकंद (सीजन में)	1.25 किलोग्राम 1.50 लिटर 500 ग्राम 1 पीस 4 पीस ब्रेड, 25 ग्राम शहद (ब्रेड में शहद लगाकर) शकरकंद 500 ग्राम या तरबूज – 1 किलोग्राम	सप्ताह में तीन दिन (मंगल, वृहस्पत एवं शनिवार) दोनों में से एक, जो भी उपलब्ध हो।
14	हिमालयन काला भालू	स्लाइस ब्रेड दूध केला (पका) पता गोभी / गाजर / खीरा	28 पीस (लगभग 750 ग्राम) 1.50 लीटर 2.50 किलोग्राम 500 ग्राम	
15	सांभर	गेहूँ चोकर मकई दर्रा मूँगफली खल्ली साधारण नमक कुट्टी घास सोयामील महुआ	600 ग्राम 250 ग्राम 100 ग्राम 15 ग्राम 4 किलोग्राम 10 किलोग्राम 150 ग्राम 150 ग्राम	अक्टूबर से फरवरी
16	चीतल	गेहूँ चोकर	200 ग्राम	

		मकई दर्रा मूँगफली खल्ली साधारण नमक कुट्टी घास सोयामील महुआ	100 ग्राम 50 ग्राम 10 ग्राम 1 किलोग्राम 6 किलोग्राम 100 ग्राम 100 ग्राम	अक्टूबर से फरवरी
17	नीलगाय	गेहूँ चोकर मकई दर्रा मूँगफली खल्ली साधारण नमक कुट्टी घास सोयामील महुआ	500 ग्राम 250 ग्राम 100 ग्राम 15 ग्राम 3 किलोग्राम 10 किलोग्राम 150 ग्राम 150 ग्राम	अक्टूबर से फरवरी
18	बार्किंग डीयर (कोटरा)	बर्डमेश पालक साग साधारण नमक घास / पत्ता सोयामील महुआ	500 ग्राम 500 ग्राम 10 ग्राम 2 किलोग्राम 50 ग्राम 50 ग्राम	अक्टूबर से फरवरी
19	कृष्णमृग या सफेद कृष्णमृग	गेहूँ चोकर मकई दर्रा मूँगफली खल्ली चना चोकर साधारण नमक कुट्टी घास चना सोयामील	200 ग्राम 100 ग्राम 50 ग्राम 25 ग्राम 10 ग्राम 500 ग्राम 4 किलोग्राम 100 ग्राम 100 ग्राम	चना पानी में भीगाकर देना है।
20	हाथी	अरवा चावल (मोटा) चना गुड़ साधारण नमक केला (पका) ईख घास पत्ता / डाली / छाल महुआ खीरा / तरबूज	1 किलोग्राम 3 किलोग्राम 1 किलोग्राम 50 ग्राम 3 किलोग्राम 10 किलोग्राम 50 किलोग्राम 100 किलोग्राम 100 ग्राम 10 किलोग्राम	मौसम में। अक्टूबर से फरवरी 15 अप्रैल से 15 जून तक एवं ईख उपलब्ध नहीं रहने पर।

21	बाईसन (गौर)	गेहूँ चोकर बादाम-खल्ली जौ दर्रा चना घास/पत्ता साधारण नमक कुड़ी	2.5 किलोग्राम 500 ग्राम 500 ग्राम 1 किलोग्राम 50 किलोग्राम 10 ग्राम 5 किलोग्राम	
22	हिप्पो	गेहूँ चोकर कुड़ी केला (पका) घास गाजर आलू महुआ	4 किलोग्राम 10 किलोग्राम 3 किलोग्राम 50 किलोग्राम 2 किलोग्राम 5 किलोग्राम 500 ग्राम	अक्टूबर से फरवरी
23	बन्दर	चना चावल मूँगफली अमरूद/खीरा या अन्य मौसमी फल गाजर/बैंगन केला (पका) पत्ता पत्तागोभी	25 ग्राम 25 ग्राम 50 ग्राम 100 ग्राम 100 ग्राम 500 ग्राम 25 ग्राम 25 ग्राम	भात पकाकर। मौसम में। नीम, चना, सरसो, बरसीम घास या दुधिया लत्तर का।
24	लंगूर	चना चावल मूँगफली अमरूद/खीरा या अन्य मौसमी फल गाजर/बैंगन केला (पका) पत्ता पत्तागोभी	50 ग्राम 50 ग्राम 100 ग्राम 100 ग्राम 200 ग्राम 750 ग्राम 25 ग्राम 25 ग्राम	भात पकाकर। मौस में। नीम, चना, सरसो, बरसीम घास या दुधिया लत्तर का।
25	सिवेट कैट	केला (पका) सेव चिकेन	500 ग्राम 100 ग्राम 150 ग्राम	
26	अजगर (पाईथन)	चिकेन (जिन्दा)	लगभग 800 ग्राम (एक पीस)	सप्ताह में दो बार – (हाइबरनेशन अवधि छोडकर)
27	रसेल वाईपर, सैण्ड बोआ, बैण्डेड करैत, कोबरा, करैत,	एक दिन ओल्ड चिक (जिन्दा) या जीवित एवं स्वस्थ चूहा।	एक पीस	सप्ताह में एक बार – (हाइबरनेशन अवधि छोडकर)

	कीलबैक, ट्रिकेट, धामिन, वाईपर, कैट स्नेक			
28	मोनीटर लिजार्ड (गोह)	महिषमांस	750 ग्राम	सप्ताह में दो बार (न्यूनतम 3 दिन का गैप)
29	वाटर मोनीटर लिजार्ड	छोटी मछली या चिकेन मीट	250 ग्राम	सप्ताह में तीन बार (न्यूनतम 1 दिन का गैप)
30	रंगीन मोर तथा सफेद मोर	पोल्ट्री फीड पालक साग बर्डमेश प्याज धान	150 ग्राम 50 ग्राम 50 ग्राम 25 ग्राम 25 ग्राम	
31	देशी बतख	धान बर्डमेश	50 ग्राम 50 ग्राम	
32	हिल मैना तथा कोयल	केला (पका) पपीता चना सत्तू	2 पीस 50 ग्राम 50 ग्राम	
33	पेलीकन (हवासील)	छोटी मछली (ताजा)	1.0 किलोग्राम 1.5 किलोग्राम	अप्रैल से सितम्बर। अक्टूबर से मार्च।
34	देशी हंस (Mute Swan)	बर्डमेश धान चावल	100 ग्राम 150 ग्राम 75 ग्राम	भात पकाकर।
35	लव वर्ड एवं बजरीगर	चिड़ियादाना पालक साग	25 ग्राम 10 ग्राम	
36	तोता	धान सूरजमुखी बीज अमरुद/सेव मूँगफली (छिलका सहित) चना	5 ग्राम 5 ग्राम 50 ग्राम 20 ग्राम 20 ग्राम	
37	ललमुनिया	चिड़ियादाना पालक साग	5 ग्राम 10 ग्राम	
38	कोकाटेल	केला (पका) सेव चना पालक साग	2 पीस 100 ग्राम 25 ग्राम 25 ग्राम	
39	White Ibis	चिकेन मीट	175 ग्राम	कीमा बनाकर
40	ब्राह्मी डक	पोल्ट्री फीड पालक साग धान बर्डमेश पालक साग	50 ग्राम 50 ग्राम 50 ग्राम 50 ग्राम 50 ग्राम	
41	तीतर एवं फ्रेंकोलिन	पल्सग्रेन धान	20 ग्राम 10 ग्राम	

		चिड़ियादाना लहसुन मकई दर्रा	25 ग्राम 10 ग्राम 20 ग्राम	
42	गरुड़	चिकेन	700 ग्राम	
43	ग्रेलैग गूज	पोल्ट्री फीड पालक साग बाजरा धान बर्डमेश	50 ग्राम 50 ग्राम 25 ग्राम 50 ग्राम 50 ग्राम	
44	एमू	पोल्ट्री फीड पत्तागोभी / पालक साग सेव केला (पका) पल्सग्रेन पपीता प्याज	500 ग्राम 50 ग्राम 100 ग्राम 250 ग्राम 250 ग्राम 250 ग्राम 100 ग्राम	
45	गोल्डेन फीजेंट सिल्वर फीजेंट कालीज फीजेंट	पोल्ट्री फीड लहसुन धान मकई दर्रा पल्सग्रेन पालक साग	20 ग्राम 10 ग्राम 5 ग्राम 50 ग्राम 20 ग्राम 20 ग्राम	
46	मलार्ड डक एवं मैडरिन डक	पोल्ट्री फीड पालक साग धान बर्डमेश	100 ग्राम 50 ग्राम 100 ग्राम 100 ग्राम	
47	सिल्वर फीजेंट	पोल्ट्री फीड धान लहसुन मकई दर्रा पल्सग्रेन पालक साग	20 ग्राम 5 ग्राम 10 ग्राम 50 ग्राम 20 ग्राम 20 ग्राम	
47	लेडी ऐमहस्ट फीजेंट	पोल्ट्री फीड धान लहसुन मकई दर्रा पल्सग्रेन पालक साग	20 ग्राम 5 ग्राम 10 ग्राम 50 ग्राम 20 ग्राम 20 ग्राम	
48	बड़ा तोता (big Indian parrakit)	केला (पका) अमरूद / सेव मूँगफली सूरजमुखी बीज चना	1 पीस 100 ग्राम 20 ग्राम 5 ग्राम 20 ग्राम	
49	हॉर्नबिल (धनेष)	केला (पका) पपीता	2 पीस 100 ग्राम	

		सेव चना सत्तू सूरजमुखी बीज	50 ग्राम 25 ग्राम 5 ग्राम	
50	जपानीज फिजेंट	पोल्ट्री फीड धान लहसुन मकई दर्रा पालक साग	25 ग्राम 10 ग्राम 10 ग्राम 50 ग्राम 20 ग्राम	
51	ग्रास उल्लू	चिकेन मीट	300 ग्राम	
52	यूरेशियन इगल उल्लू	चिकेन मीट	400 ग्राम	
53	शुतुरमुर्ग	पोल्ट्री फीड पता गोभी पालक	2 कि०ग्राम 1 कि०ग्राम 1 कि०ग्राम	

14. Vaccination Schedule of animals

Sl.No.	Species	Disease vaccinated for	Name of the Vaccine and dosage/ quantity used	Periodicity	Remarks
1	Tiger	Rhinotracheitis Calciivirois Panleucopenia	Fel-o-vax or Ronvac	Yearly	
2	Lion	Rhinotracheitis Calciivirois Panleucopenia	Fel-o-vax or Ronvac	Yearly	
3	Leopard	Rhinotracheitis Calciivirois Panleucopenia	Fel-o-vax or Ronvac	Yearly	
4	Elephant	Foot & Mouth Disease	F.M.D Vaccine	Half yearly	

15. De-worming Schedule of animals

Sl.No.	Species	Drug used	Month
1	Lion,	(i) Praziquantel + Pyrantel Pamoate + Febantel.	Quarterly (February, May, August, November)
2	Leopard		
3	Tiger	(ii) Fenbendazole + Ivermectin	
4	Jungle Cat		
5	Jackal		
6	Fox		
7	Palm civet cat		
8	Leopard Cat		
9	Deer, Antelopes Sloth Bear, Himalayan Bear, Indian Gaur, Elephant, Hippopotamus	Fenbendazole + Ivermectin	Quarterly (February, May, August, November)

- **Quarterly routine deworming is done with above drugs.**
- **Routine faecal Examination (Twice in a year i.e. Last week of March or 1st week of April and last week of September or 1st week of October) is done.**

16. Disinfection Schedule

Sl.No.	Species	Type of enclosure	Disinfectant used and method	Frequency of disinfection
1	Birds	Aviary/ Pheasantry	Bio-Buster ⁺	Weekly
2	All Big Cats	Exhibit enclosure Retiring cell Nursery	Bio-Buster ⁺ Phenyle, Lime powder	Weekly Daily
3	Deer, Antelopes	Exhibit enclosure	Bio-Buster ⁺ Lime powder	Weekly
4	Elephants	Exhibit enclosure Pilkhana	Bio-Buster ⁺ Lme powder & Phenyle	Weekly Daily

17. Health Check-up of employees for zoonotic diseases

Sl. No	Name	Designation	Date of Health Check up	Findings of Health Check up
1	Bimala Devi	Daily wages	20.06.2018	Negative for zoonotic diseases.
2	Santosh Kr. Mahto	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
3	Shiv Shankar Munda	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
4	Tetra Munda	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
5	Sujeet Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
6	Anup Kumar Singh	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
7	Etwa Oraon	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
8	Baijnath Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
9	Abu Hasim Ansari	Daily wages	20.06.2018	Negative for zoonotic diseases.
10	Jageshwar Mahto	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
11	Kiran Nayak	Daily wages	20.06.2018	Negative for zoonotic diseases.
12	Puran Pahan	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
13	Madan Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
14	Mantu Pahan	Daily wages	20.06.2018	Negative for zoonotic diseases.
15	Chunilal Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
16	Ramjit Bhandari	Daily wages	20.06.2018	Negative for zoonotic diseases.
17	Harun Ansari	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
18	Sanjeev Kumar Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
19	Yugeshwar Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.

20	Vijay Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
21	Hiran Devi	Daily wages	20.06.2018	Negative for zoonotic diseases.
22	Jagan Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
23	Safik Alam	Daily wages	20.06.2018	Negative for zoonotic diseases.
24	Jhabi Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
25	Rajendra Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
26	Kiran Devi	Daily wages	20.06.2018	Negative for zoonotic diseases.
27	Bhuneshwar Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
28	Amar Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
29	Chhotan Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
30	Bappi Nayak	Daily wages	20.06.2018	Negative for zoonotic diseases.
31	Kaleshwar Yadav	Daily wages	20.06.2018	Negative for zoonotic diseases.
32	Jagat Prasad	Daily wages	20.06.2018	Negative for zoonotic diseases.
33	Budhesh Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
34	Radhamani Devi	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
35	Lakhi Devi	Daily wages	20.06.2018	Negative for zoonotic diseases.
36	Sanjay Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
37	Baleshwar Mahto	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
38	Yogendra Mahto	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
39	Bhola Mahto	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
40	Suraj Nath Munda	Animal Keeper	20.06.2018	Negative for zoonotic diseases.

41	Sadho Oraon	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
42	Bhuneshwar Mali	Daily wages	20.06.2018	Negative for zoonotic diseases.
43	Brajendra Kumar Singh	Animal Keeper	20.06.2018	Negative for zoonotic diseases.
44	Sadhu Oraon	Daily wages	20.06.2018	Negative for zoonotic diseases.
45	Bigo Devi	Daily wages	20.06.2018	Negative for zoonotic diseases.
46	Fuleshwar Mahto	Daily wages	20.06.2018	Negative for zoonotic diseases.
47	Malti Devi	Daily wages	20.06.2018	Negative for zoonotic diseases.
48	Bihari Munda	Daily wages	20.06.2018	Negative for zoonotic diseases.
49	Md. Arshad Ansari	Daily wages	20.06.2018	Negative for zoonotic diseases.

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

Developmental works like overhead water tank, Strengthening of Black buck enclosure, enrichment of black swan enclosure, Vermi composting infrastructure, Strengthening of boundary wall, Visitor amenities etc.

19. Education and Awareness programmes during the year

At present, there is no Education Officer/Curator in Bhagwan Birsa Biological Park, yet different types of zoo education programmes like celebration of wildlife week, Biodiversity Conservation Day, world wildlife day, world environment day etc have been celebrated. Besides these, field training of wildlife health and hygiene for final year veterinary students and refresher training cum visit of forest guards as well as exposure of newly recruited forest guards during 2018-19 were conducted successfully.

During wildlife week (from 2nd October) elocution, essay and painting competitions on various topics related to the wildlife and its conservation were organized involving students of many schools situated in the Ormanjhi Block. Prizes were distributed among winning students.

Govt. of Jharkhand has made mandatory for school children to visit the tourist places in their extracurricular activities. As a result, many schools undertook zoo visit programme for their students during the year. The students were addressed by zoo official and had talk with zoo keepers.

In order to strengthen and diversify the zoo education programme, a modern audio – visual public education centre - cum – library has been built in the zoo premises. It is a two storey building of architectural grandeur. The ground floor of the building has modern audio visual facility while the first floor has library. Wildlife related films are screened to school children on special occasions. The theatre also serves the purpose of conference hall. The library on the first floor is having books & publications related to wildlife.

20. Important Events and happenings – Celebration of

- (i) World Tiger Day
- (ii) World Environment Day
- (iii) Earth Day
- (iv) Biodiversity Day
- (v) Wildlife Day
- (vi) Wildlife Week

21. Seasonal special arrangements for upkeep of animals

Seasonal Special Arrangements in Summer :-

1. Grass Thatching in nursery area.
2. Jute bag hanging in windows & grill area. Twice or thrice water sprinkling is done in jute bag curtain.
3. Glucose & Electrolyte powder is provided in drinking water for animals.
4. Seasonal high water containing fruits & vegetables (like, cucumber, Watermelon, musk melon to deer, Antelope & Elephants)
5. Arrangement of Air coolers in the retiring cells

Seasonal special Arrangements in winter :-

1. Jute curtain in all windows & grill doors.
2. Arrangement of Electric heater in the retiring cells of carnivore mammals.

3. Special arrangements of rolled gunny bags & blankets in shape of tunnel for Brumation /Hibernation of snakes.
4. Arrangement of paddy straws bed in rest area of Deers, Antelopes & Elephant.

22. Research Work carried out and publications - NIL

23. Conservation Breeding Programme of the Zoo - NIL

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
		Black Panther/Leopard	1:0	Assam State Zoo, Guwahati	28.11.2018
		Leopard Cat	2:1	Assam State Zoo, Guwahati	28.11.2018
B.	Animals going from the zoo				
	H.NO.	Species	Number (M:F)	Going to which Zoo	Date of deposition from the zoo
		Ostrich	1:1 (2)	Assam State Zoo, Guwahati	21.11.2018

25. 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
1	07.06.2018	Wild Boar (Piglets) 2:0:0 - (2)	Chaibasa Forest Division	15.04.2019	-	Hand reared
2	21.06.2018	Palm Civet Cat 1:0:0 (1)	D.F.O. Jamshedpur	10.07.2019	-	Infusion of New Blood
3	13.07.2018	Barking Deer kid 0:0:1 (1)	D.F.O. Simdega	15.04.2019	-	Hand reared
4	07.12.2018	Lesser adjutant Stork 0:0:1 (1)	D.F.O. Giridih	15.04.2019	-	Infusion of New Blood
5	22.03.2019	Lesser adjutant Stork 0:0:1 (1)	R.F.O. Mahilong	15.04.2019	-	Infusion of New Blood

26. Annual Inventory of animals

Form – II

[See Rule 11(1)]

Part – A

Inventory Report for the Year : 2018-19

Endangered Species*

S. No.	Animal Name	Scientific name	Opening Stock as on				Births			Acquisition			Disposal			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	Peafowl Indian	<i>Pavo cristatus</i>	10	7	8	25	-	-	-	-	-	-	-	-	-	-	-	-	-	10	7	8	25
2	Peafowl White	<i>Pavo cristatus</i>	2	1	5	8	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	4	7
3	Hill Mynah पहाड़ी मैना	<i>Pseudibis papillosa</i>	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
4	Hornbill	<i>Anthracoceros albirustris</i>	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
5	Bear Himalayan Black	<i>Ursus thibetanus</i>	3	4	-	7	-	-	4	-	-	-	-	-	-	-	-	-	-	3	4	4	11
6	Bear Sloth	<i>Melursus ursinus</i>	6	2	1	9	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	1	9
7	Cat Jungle	<i>Felis chaus</i>	5	4	2	11	-	-	-	-	-	-	-	-	-	-	-	-	-	5	4	2	11
8	Gaur (Bison)	<i>Bos frontalis gaurus</i>	4	1	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	-	5
9	Elephant Asiatic	<i>Elephas maximus</i>	2	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	3
10	Langur Common	<i>Semnopithecus entellus</i>	2	1	-	3	-	1	1	-	-	-	-	-	-	-	-	-	-	2	2	1	5
11	Leopard / Panther	<i>Panthera pardus</i>	4	3	-	7	-	-	-	1	-	-	-	-	-	-	-	-	-	5	3	-	8
12	Macaque Rhesus	<i>Macaca mulatta</i>	22	20	4	46	-	-	5	-	-	-	-	-	-	-	-	-	-	22	20	9	51
13	Deer Barking Muntjac	<i>Muntiacus muntjak</i>	7	16	1	24	-	-	1	1	-	-	-	-	-	-	-	-	-	8	17	1	26
14	Black Buck	<i>Antelope cervicapra</i>	22	19	-	41	-	-	5	-	-	-	-	-	-	-	1	-	-	21	19	5	45
15	Procupine Indian	<i>Hystrix indica</i>	4	4	4	12	-	-	3	-	-	-	-	-	-	-	-	-	-	5	5	5	15
16	Jackal	<i>Canis aureus</i>	4	4	5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	5	13
17	Fox Common	<i>Vulpes bengalensis</i>	1	1	3	5	-	-	1	-	-	-	-	-	-	-	-	-	-	1	1	4	6
18	Palm Civet Cat	<i>Paradoxurus hermaphroditus</i>	2	1	-	3	-	-	-	-	-	-	-	-	-	-	1	-	-	2	-	-	2
19	White black Buck	<i>Antelope cervicapra</i>	5	10	3	18	-	-	1	-	-	-	-	-	-	1	-	-	-	4	10	4	18
20	Tiger	<i>Panthera tigris tigris</i>	2	1	-	3	-	-	3	1	1	-	-	-	-	-	1	-	-	3	4	-	7
21	Leopard Cat	<i>Prionailurus bengalensis</i>	1	3	2	6	-	-	-	2	1	-	-	-	-	-	1	-	-	3	3	2	8
22	Slow Loris	<i>Nycticebus bengalensis</i>	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
23	Indian Giant Squirrel	<i>Ratufa indica</i>	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
24	Gharial	<i>Gavialis gangeticus</i>	1	2	37	40	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	37	40
25	Crocodile Marsh	<i>Crocodylus palustris</i>	-	2	-	2	-	-	-	1	-	-	-	-	-	-	-	-	-	1	2	-	3
26	Python	<i>Python molurus molurus</i>	1	1	5	7	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	5	7
27	Russel's Viper	<i>Vipera russelli</i>	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
28	Moniter Lizard	<i>Varanus salvator</i>	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
29	Water Monitor Lizard	<i>Varanus salvator</i>	-	-	4	4	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	2	2
30	Cobra Spectacled	<i>Naja naja</i>	-	-	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
31	Keel Back	<i>Yenochrophis piscator</i>	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
32	Rat Snake	<i>Ptyas mucosus</i>	1	1	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	3
33	Kalij pheasant	<i>Lophura leucomelanos</i>	1	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
			114	112	107	333	-	1	24	6	2	-	-	-	-	3	5	-	-	119	117	122	358

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

Part – B

Other than Endangered Species

S . N o.	Animal Name	Scienti fic name	Opening Stock as on				Births			Acquisitio n			Disposa l			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	Pelican Grey	<i>Pelecanus philippensis</i>	-	-	2	2		-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
2	Swan		2	4	3	9						2	4	3						-	-	-	-
3	Love Birds	<i>Melopsittacus undulatus</i>	-	-	134	134		-	-	-	-	-	-	-	-	-	-	-	-	-	-	134	134
4	Common Pariah Kite	<i>Milvus migrans</i>	-	-	6	6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
5	Eagle	<i>Ichthyophaga ichthyaetus</i>	-	-	1	1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
6	Grass Owl	<i>Tyto capensis</i>	-	-	4	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
7	Eurasian Owl	<i>Bubo bubo</i>	-	-	5	5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5
8	Emu	<i>Dromaius novaehollandiae</i>	2	5	10	17		-	-	-	-	-	-	-	2	-	-	-	-	2	5	8	15
9	Golden Pheasant	<i>Chrysolophus pictus</i>	2	2	-	4		-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	4
10	Parrakeets	<i>The green Parrakeets</i>	-	-	52	52		-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	52
11	Lalmuniya	<i>Lonchura Castaneothorax</i>	-	-	382	382		-	-	-	-	-	-	-	-	-	-	-	-	-	-	382	382
12	Robin	<i>Saxicoloides falicatus</i>	-	-	1	1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
13	Koel	<i>Eudynamis scolopacea</i>	-	-	1	1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
14	Cocka Teil	<i>Nymphicus hollandicus</i>	2	2	8	12		-	-	-	-	-	-	-	1	-	-	-	-	2	2	7	11
15	Budgeriger	<i>Melopsittacus undulatus</i>	1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
16	White Ibis	<i>Threskiornis melanocephalus</i>	3	3	-	6		-	-	-	-	-	-	-	-	-	-	-	-	3	3	-	6
17	Brahmi duck	<i>Todora ferrugi</i>	1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
18	Titar	<i>Francolinus pondicerianus</i>	-	-	4	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
19	Adjutant stork	<i>Leptoptilos dubrus</i>	-	-	4	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
20	Black frankolin	<i>Francolinus francolinus</i>	-	-	2	2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
21	Night Heron	<i>Nycticorax nycticorax</i>	1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
22	Grey Heron	<i>Ardea cinerea</i>	1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
23	Malard duck	<i>Anas platyhynchos</i>	1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
24	Mandrin duck	<i>Aix galericulata</i>	1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
25	Lady Amherst Pheasant	<i>Chrysolophus amherstiae</i>	1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
26	Red Japanese Pheasant		1	1	-	2		-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	2
27	Ostrich	<i>Strithio camelus</i>	4	3	7	14		-	-	-	-	2	3							4	3	2	9
28	Silver pheasant	<i>Lophura nycthemera</i>	2	2	-	4		-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	4
29	Black Swan	<i>Cygnus atratus</i>	1	1	-	2		-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	1
30	Black Neck Swan	<i>Cygnus melancoryphus</i>	-	1	-	1		-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
31	Red Lory	<i>Eos bornea</i>	1	-	-	1		-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
32	Weaver bird	<i>Ploceus philippinus</i>	-	-	4	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
33	Zebra finch	<i>Taeniopy guttata</i>	-	-	5	5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5
34	Java Finch	<i>Padda oryzivora</i>	-	-	5	5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5
35	Quail	<i>Coturnix coturnix</i>	-	-	4	4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
36	Hippopotamus	<i>Hippopotamus amphibius</i>	3	1	-	4		-	-	-	-	-	-	-	-	-	-	-	-	3	1	-	4
37	Deer Sambar	<i>Rusa unicorn</i>	10	12	2	24		-	-	5	4	-	-	4	-	-	1	-	10	13	5	28	

38	Deer Spotted	<i>Axis axis</i>	79	140	21	240	-	-	20	-	-	-	-	-	5	-	-	74	161	20	255	
39	Hyaena Stripped	<i>Hyaena hyaena</i>	5	3	3	11	-	-	-	-	-	1	1	-	-	-	-	4	3	2	9	
40	Lion Hybrid	<i>Panthera leo</i>	1	3	-	4	-	-	-	-	-	-	-	-	1	-	-	1	2	-	3	
41	Nilgai	<i>Boselaphus Tragocamelus</i>	2	6	3	11	-	-	7	-	-	-	-	-	-	-	-	5	10	3	18	
42	Wild Boar	<i>Sus scrofa</i>	-	3	1	4	-	-	-	1	-	-	-	-	-	-	-	2	3	-	5	
43	Sand Boa	<i>Eryx conicus</i>	1	1	2	4	-	-	-	-	-	-	-	-	-	-	-	1	1	2	4	
44	Banded Karait	<i>Bungarus fasciatus</i>	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
45	Karait	<i>Bungarus caeruleus</i>	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
46	Trinket Snake	<i>Coelognathus helena</i>	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
47	Green pit viper	<i>Trimeresurus gramineus</i>	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
48	Cat Snake	<i>Boiga trigonata</i>	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
49	Sand Boa red	<i>Eryx johni</i>	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
50	Tortoise Indian Star	<i>Geochelone elegans</i>	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
			128	200	687	1015	-	-	32	5	-	-	9	8	3	8	3	-	126	219	676	1021

27. Mortality of animals

Sl. No.	Animal Name (with individual identification mark, if any)	Scientific Name	Sex	Date of Death	Reason of Death as per the Post-mortem report
1	Water Monitor Lizard	<i>Varanus salvator</i>	F	08.04.2018	Cardio-Respiratory failure due to pneumonia in old age.
2	Spotted Deer	<i>Axis axis</i>	M	03.05.2018	Cardio-Respiratory failure due to Hepatitis & Nephritis.
3	Black buck	<i>Antelope cervicapra</i>	M	10.07.2018	Cardio-Respiratory failure due to pneumonia in old age.
4	Sambar	<i>Cervus unicolor</i>	F	01.08.2018	Cardio-Respiratory failure as a result of Enteritis.
5	Albino black buck	<i>Antelope cervicapra</i>	M	12.09.2018	Cardio-respiratory failure as a result of pulmonary insufficiency, hepatitis, nephritis & mild enteritis.
6	Emu	<i>Dromaius novaehollandiae</i>	M	20.09.2018	Cardio-respiratory failure as a result of pneumonia & enteritis.
7	Indian Peafowl (white)	<i>Pavo cristatus</i>	F	28.09.2018	Death due to infighting.
8	Leopard cat	<i>Prionailurus bengalensis</i>	F	21.10.2018	Cardio-respiratory failure as a broken cervical vertebrae, excessive haemorrhage due to infighting during night.
9	Tiger cub	<i>Panthera tigris tigris</i>	F	02.11.2018	Cardio-respiratory failure as a result of possible stricture in common bile duct with secondary complications in kidney, multifocal gastric ulcer and pulmonary thrombosis.
10	Spotted Deer	<i>Axis axis</i>	M	22.12.2018	Cardio- respiratory failure due to internal haemorrhage and senility.
11	Spotted Deer	<i>Axis axis</i>	M	25.12.2018	Cardio-respiratory failure due to pneumonia & old age.
12	Water Monitor Lizard	<i>Varanus salvator</i>	M	31.12.2018	Cardio-Respiratory failure due to pneumonia.
13	Hybrid Lion	<i>Panthera leo</i>	F	08.01.2019	Cardio-respiratory failure as a result of pulmonary oedema, pneumonic and possibly lung carcinoma which is confirmed histopathologically.
14	Black Swan	<i>Cygnus atratus</i>	F	25.02.2019	Cardio-respiratory failure as a result of septicaemia.
15	Spotted Deer	<i>Axis axis</i>	M	26.02.2019	Death due to infighting between males
16	Emu	<i>Dromaius novaehollandiae</i>	M	27.02.2019	Birds was permanently lame since early age died due to pneumonia.
17	Spotted Deer	<i>Axis axis</i>	M	21.03.2019	Death due to old age with respiratory infection.
18	Cockatiel	<i>Nymphicus hollandicus</i>	M	29.03.2019	Cardio-respiratory failure due to excessive haemorrhage as a result by predation by falcon.
19	Civet cat	<i>Paradoxurus hermaphroditus</i>	F	31.03.2019	Cardio-respiratory failure due to old age (multiorgan failure) with pneumonia.

28. Compliance with conditions stipulated by the Central Zoo Authority

Sr. No	Norm No. under RZR, 2009	Condition Stipulated	Time Period to Comply	Since when pending	Status with regard to compliance of the conditions
1	10.1(7)	The zoo should have proper and appropriate arrangements for managing solid and liquid waste and storm water with no adverse impact on the surrounding environment.			Proper arrangements have been made for management of waste & storm water. Further an expert/consultant will be engaged to assist the park authority.
2	10.1(7)	The cage for red and other Munias, Weaver birds and doves are not suitable for these birds. The birds should be shifted to appropriate cage with earth or sand flooring and branches for perching. The number of birds in cage should be restricted to not more than 15 small birds in one cage.			Complied
3	10.2(2)	Appropriately qualified persons should be put in place to carry out the functions of Biologist.			We are in the process of engaging a Biologist Permission has been obtained from the governing body.
4	10.2(2)	Appropriately qualified persons should be put in place to carry out the functions of Education Officer.			We are in the process of engaging an Education Officer.
5	10.2(2)	The zoo should post an official with a Master's degree in Wildlife Science/Zoology as a full time Curator, solely responsible for looking after the upkeep of animals and maintenance of animal enclosures.			The Mater will be placed before the governing body.
6	10.2(3)	In case of the scientific and technical posts are to be filled up by direct recruitment, the Recruitment Rule for such posts should provide for their career progression including the benefit of flexible complementing scheme for their promotions.			The post will be filled on contract basis.

7	10.3(1)	The water bodies inside the zoo should be properly maintained to attract free living water birds.			Complied
8	10.3(6)	If the rescued animal pertains to an endangered species, a report should be sent to the Central Zoo Authority.			Complied from time to time
9	10.4(6)	The enclosure of Hornbill should be improved as suggested in the last evaluation.			Complied
10	10.4(10)	The Zoo Operator should ensure that every enclosure in the zoo should bear a sign board displaying scientific information regarding the animals exhibited in it.			Complied
11	10.5(1)	There should be provision of footbath of adequate size with proper disinfectant at entry and exit points of all animal houses.			Complied
12	10.5(1)	The zoo should have a sufficient size functional freezer in the meat processing facility for storage of meat products and to keep cold until it is fed.			Complied
13	10.5(2)	The feed store should be made rodent proof and food items should be kept on platform to avoid deterioration of food due to moisture etc.			Complied
14	10.5(2)	Properly designed meat processing room should be constructed at a reasonable distance from the food store with proper drainage facilities.			Complied
15	10.5(2)	The meat handlers entering the facility should change into a clean and disinfected boots and coveralls.			Complied
16	10.5(2)	The meat handlers should use clean gloves when handling the meat.			Complied
17	10.5(2)	The keepers should use clean gloves, while they handle the meat prior to feeding animals.			Complied
18	10.5(10)	The Zoo should make arrangements for recording in			Database & Veterinary care is maintained and

		writing the detailed information about biological behaviour, population dynamics and veterinary care of the animals exhibited, so that a detailed database can be developed. This database should be exchanged with other zoos as well as the Central Zoo Authority.			other aspect will be complied in due course.
19	10.6(1)	The existing Veterinary Hospital of the zoo is in very bad shape. The zoo should have an appropriate full-fledged veterinary unit with all basic diagnostic facilities, pharmacy, diagnostic and treatment room, comprehensive range of drugs, operation theatre and in-patient wards.			Complied
20	10.6(6)	The Zoo should provide one qualified Lab Assistant and Compounder for assisting the Senior Veterinary Officer/Veterinary Officer in healthcare of zoo animals.			Experienced compounder is in place
21	10.6(3)	The zoo should have basic dental instruments.			Will be complied
22	10.6(3)	The zoo should post one qualified Lab. Assistant to assist the Veterinarian of the zoo.			Will be complied
23	10.6(6)	The zoo should have formal MoU with the Veterinary College, B.A.U. Ranchi at the earliest for healthcare of zoo animals with following objectives <ul style="list-style-type: none"> 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. 			Will be complied
24	10.7(2)	The zoo veterinarian should have specialized knowledge and skills			Complied

		in wildlife pathology. He should be deputed for such skill development.			
25	10.7(2)	The zoo should have an appropriate incinerator for disposal of animal carcass in an environment friendly manner.			Complied
26	10.9(1)	The Zoo should keep in collection only such numbers and species for which appropriate housing facility exists. The zoo operator shall be responsible for ensuring that the number of animals of any species does not go beyond the carrying capacity of the enclosures available in the zoo and housing standards are not compromised for keeping the excessive numbers. The animals in excess number at the zoo such as Sambar, Spotted deer, Barking deer, Striped Hyaena, Blue bull, Indian porcupine, Emu, Love birds, Pea fowl, Black buck, Jungle cat, Jackal, Rhesus macaque, Gharial, Spotted munia, Parakeets etc. Should be shifted to other recognised zoos in consultation with the Central Zoo Authority.			Exchange of Surplus animal is done from time to time.
27	10.9(9)	The Zoo Operator should take necessary steps to safeguard against uncontrolled growth in the population of species like Sambar, Spotted deer, Barking deer, Gharial, Rhesus macaque etc. By adopting appropriate population control measures.			Appropriate population control measures will be adopted from time to time based on requirement.
28	10.9(4)	The zoo should acquire mates for single and unpaired animals on priority basis and in the event of the zoo failing to find a mate for single and unpaired animal within a period of six months, the unpaired or single animal should be transferred or exchanged or given on breeding loan to any other zoo in accordance with the norms specified by the Central Zoo			Will be complied

		Authority in this regard.			
29	10.9(4)	The zoo should provide mates for the single animal species such as Eagle, Koel, Indian Robin, Joans Boa, Cat Snake, Trinket snake, Lorry and Black Necked Swan.			Will be complied
30	10.10(1)	The zoo should prepare a detailed Research Plan for the zoo and execute it with the help of the Biological and Research Scholars. An MoU should be signed in this regard with eminent Biological Research Institutions.			Will be complied

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

- a. Mammals - Jackal, Jungle cat, Bat, Squirrel etc.
- b. Birds - Crow, Common mynah, Eagle, Pariah kite, Grass Owl, Haril, Dove, Munia, Bush lark, Francolin etc
- c. Reptiles - Rat Snake, Russell's Viper, Cobra, Banded Karait, python, Kariat, keel back, Chamallion etc.