

**FAUNAL
ASSESSMENT OF
GAUTAM BUDHA
WILDLIFE
SANCTUARY**

FAUNAL ASSESSMENT

Name, Location, Constitution and the Extent of Area.

The Project Area (PA), named as Gautam Buddha Wild Life Sanctuary, is situated in the district of Hazaribagh, Jharkhand. It is elongated in shape and can be divided into two halves, Northern and Southern halves with a narrow constriction joining both the halves. The Northern halve is larger in size, covering a length of about 12.5 Km. from East to West and a breadth of about 7 Kms. from North to South. The Southern halve is smaller in size, covering a length of about 6.5 Km. from East to West and a breadth of about 8 Kms. from North to South. It occupies an area of 100.05 Sq. Km. between 85° 5'18" to 85°17'14" East longitude and 24° 19'33" to 24° 29' 33" North latitude.

The Sanctuary is under the administrative control of Divisional Forest Officer, Wildlife Division, Hazaribagh and Divisional Forest Officer, Gaya. Notified boundaries of the sanctuary, extending over 3villages fall under Revenue Thanas of Barachatti in Gaya district.

The Whole Sanctuary Area, were under private ownership till 1947. It was subsequently constituted as Protected Forest under Indian Forest Act 1927. Again, consequent to the enactment of Wild Life Protection Act 1972, these forests were notified as a Wild Life Sanctuary under section 18 (1) of the said act by the State Government vide its notification No. SO 1485 dated 14.09.1976.

The total area of the sanctuary is 100.05 sq.Km. of Protected Forest. The sanctuary is surrounded by a number of thickly populated villages with cultivation and settlements within, which account for the increasingly undesirable biotic pressure and rendering the area susceptible to degradation.

As per the notification of the sanctuary the protected forest of three different forest division namely Gaya Forest Division were taken as Gautam Buddha Sanctuary. After creation of Wildlife Division, Hazaribag, the Koderma Forest Division and Chatra North Forest Division are supposed to transfer the forest area to wildlife division. The area of Gaya Forest Division went to Bihar State. The details of area of different divisions notified as Gautam Buddha Wildlife sanctuary are as follows :

Sl. No.	Name of Division	Area of Demarcated Protected Forest (Hac)	Area of land excluded from Forest land (Hac)	Total Notified area (Hac)
1	Gaya Forest Division	13722.63	111.1	13833.66
2	Koderma Forest Division	10005.44	-	10005.44
3	Chatra North Forest Division	2100.82	-	2100.82
	Tota	25828.89	111.1	25939.92

After the creation of Jharkhand as a separated state, the area (13833.66 hac.) notified as Sanctuary after delineating Gaya Forest Division remain with Bihar state.

Approach and Access

The Sanctuary is quite easily accessible, as it is well connected by road, rail and air. National Highway No. 2 connecting Howrah to Delhi passes right through the northern halves of the Sanctuary. The P.A. has 2 entrances namely Chouparan and Danua check naka. The Chouparan is approximately 50 k.m. from Koderma and Hazaribagh and 80 Km. from Gaya

BACKGROUND INFORMATION & ATTRIBUTES.

Boundaries:

External boundary

The Sanctuary is surrounded by Continuous forest belt of Gajandi Ranges of Koderma forest division and Chatra forest division. It is situated in the Northeast and Western side of Hazaribag district. The boundary line of the sanctuary has been shown on the enclosed map. The peripheral details of the sanctuary is given below:

1. **North:** Villages with protected forest of Barachatti thana, dist. Gaya.
2. **South:** Villages with P.F. of Itkhory thana dist. Hazaribag (Forest area falling under the jurisdiction of Koderma Forest Division and Chatra Forest Division).
3. **East:** Protected Forest area of Itkhory and Chouparan thana falling under the jurisdiction of Koderma Forest Division.
4. **West:** Forest area Barachatti thana of Gaya district falling under the jurisdiction of Gaya Forest Division, Bihar.

Legal boundary :

The area within the aforesaid boundaries has been notified as Gautam Buddha Sanctuary vide Govt. of Bihar Gazette Notification No. S.O. 1485 dated 14th, Sept 1976. As per the notification the total area of the Sanctuary should have been 25939.92 Hac. or 259.40 Sq km. But due to creation of separate state, the 13833.66 Hac. or 138.33 Sq. Km. of sanctuary area remained with Bihar State.

Ecological boundary:

Based on the migration and excursion patterns of herbivores, which may extend to 3-5 Km. beyond the notified boundaries, the same may be considered as ecological boundaries of the sanctuary for herbivores except elephants, for which it extends very deep into the forests of Koderma, Giridih, Chatra, Ranchi and Palamu districts.

Zone of Influence:

It is difficult to delimit zone of influence, as there are 3 villages proposed within the sanctuary limits.

Terrain:

The terrain of the Sanctuary is undulating with low to high hills in the central and western portions. The main hills are Lohawar, Tamasin etc. The altitude of the area varies from 500-600 M above the mean sea level. These hills are separated by valleys, plateaus and stretches of plains. The area is well drained by a series of nalas or streams like Simarkola, Marghati, Goari, Jharna, Sarne Mainuar, Bukar, Mahane etc. The main river is Mahane which originates from Chatra South Forest Division and flows from South to North. Features like gullies, ravines, dams, rock crevices etc are also present at different places of the P.A. All these features of the terrain make it an ideal site for a variety of flora and fauna, besides giving it a spectacular landscapes.

Climate:

The Sanctuary experiences the usual seasons common to a tropical zone i.e. summer, rainy and winter seasons. The summer is characterized by hot and dry winds. The Northwesterly wind in winter causes severe cold conditions in the area.

Rainfall:

Rains occur mostly during the period of south west monsoon i.e. from June to September.

Temperature:

The temperature in the area varies from a minimum of 5⁰ c in the peak of winter to a maximum of 46⁰ c in the summer.

Humidity:

It varies from a maximum of about 90 percent during monsoon to a minimum of around 10 percent, during March/April of the year.

Water Sources:

The sanctuary serves as watershed for a number of streams and rivers. Most of streams are rainfed and seasonal and therefore, dry up in summer. However rivers carry a little bit of water throughout the year and are important source of water for wild animals. The detail list of streams & rivers are being annexed. Besides few important ones are being listed.

List of Natural Water Bodies (Perennial / Seasonal)

S.no	Nane of River/ Nala	Location	Remarks
1	2	3	4
1	Sarne River	Near Bukar, along border of Gaya	Perennial
2	Jarda River	Near Bukar, towards Mainukhar	Perennial
3	Bukar River	Near Bukar, towards Pathalgarhwa &	Perennial
4	Suhari River	Near Asanchuan, towards Pandria	Perennial
5	Panchbadiniya River	Near Asanchuan, towards Bukar	Perennial

6	Jamunia River	Near Asanchuan, towards Khairatand	Perennial
7	Simarkola River	Near Pathargarwa, towards Bukar	Perennial
8	Goari River	Near Chordaha, towards Gaya	Perennial
9	Mohane River	Near Maurania, towards Gaya	Perennial
10	Jharna River	Near Bukar, towards	Perennial
11	Tari Stream	Near Silodhar, towards Danua	Seasonal
12	Harguma Stream	Near Sikda, towards Maurenia	Seasonal
13	Ghorachaur Nala	Near Garmorwa, towards S. Border	Seasonal
14	Pichri Nala	Near Aahri,	Seasonal
15	Balwa Nala	Near Aahri, towards S. Border	Seasonal

The above water sources besides meeting the needs of the Wild Life also meet the drinking water requirement of cattle. In addition, villagers use the streams for domestic and agricultural purposes.

FAUNA:

The mammalian fauna & Birds that are commonly found in the P.A. are Wild Boar, Barking Dear, Jungle Fowl, Wolf, Common Peafowl, Cheetal, Rhesumacaque, Hare, Hyaena , Jackal.

Present status of animals (Mammalian):

The detailed census of the sanctuary area is being carried out by Environment & Forest Department, Government of Jharkhand. The census report of the Gautam Budha Wildlife Sanctuary for last five years is summarized as below:

**Counting of Wild Animals of wildlife sanctuary
Year 2013**

Sl.No	Name of Wild Animal	Name of Wildlife Sanctuary										Total
		Hazaribag Wildlife Sanctuary	Koderma Wildlife Sanctuary	Lawalong Wildlife Sanctuary	Parasnath Wildlife Sanctuary	Topchanchi Wildlife Sanctuary	Gautam Budha Wildlife Sanctuary	Palkot Wildlife Sanctuary	Dalma Wildlife Sanctuary			
		3	4	5	6	7	8	9	10	11		
1	2											
2	Sloth bear	0	0	0	0	0	0	18	0		18	
3	Wild boar	0	0	0	0	0	0	254	0		254	
4	Barking deer	0	0	0	0	0	0	16	0		16	
5	Langoor	0	0	0	0	0	0	127	0		127	
6	Monkey	0	0	0	0	0	0	842	0		842	
8	Wild dog	0	0	0	0	0	0	54	0		54	
9	Leopard	0	0	0	0	0	0	25	0		25	
10	Indian gaint squirrel	0	0	0	0	0	0	53	0		53	
11	Jungle fowl	0	0	0	0	0	0	287	0		287	
12	Wolf	0	0	0	0	0	0	63	0		63	
13	Common mongoose	0	0	0	0	0	0	72	0		72	
	कुल	0	0	0	0	0	0	1811	0		1811	

**Counting of Wild Animals of wildlife sanctuary
Year 2012**

Sl.No	Name of Wild Animal	Name of Wildlife Sanctuary										Total
		Hazaribag Wildlife Sanctuary	Koderma Wildlife Sanctuary	Lawalong Wildlife Sanctuary	Parasnath Wildlife Sanctuary	Topchanchi Wildlife Sanctuary	Gautam Budha Wildlife Sanctuary	Palkot Wildlife Sanctuary	Dalma Wildlife Sanctuary			
1	2	3	4	5	6	7	8	9	10	11		
1	Elephant	0	0	0	0	0	0	0	0	0	0	156
2	Sloth bear	0	0	0	0	0	0	0	0	0	67	82
3	Wild boar	32	28	175	105	96	63	194	217	82	316	2377
4	Barking deer	29	11	52	15	8	8	27	82	66	1810	0
5	Langoor	0	0	0	32	18	0	0	0	0	0	0
6	Monkey	0	0	0	0	0	0	0	0	0	0	0
7	Wildkey	0	0	0	0	0	0	0	0	0	0	0
8	Wild dog	0	0	0	0	0	0	0	0	0	0	0
9	Leopard	2	0	4	4	2	0	4	0	0	0	0
10	Indian gaint squirrel	20	0	0	0	0	0	0	0	0	0	0
11	Jungle fowl	61	35	54	86	92	75	337	0	0	0	0
12	Wolf	13	11	0	15	17	8	58	6	0	0	0
13	Common mongoose	14	12	0	0	0	0	70	44	0	0	0
14	Peafowl	0	0	0	0	0	0	5	74	0	0	0
15	Common Peafowl	50	56	49	55	52	22	0	0	0	0	0
16	Snake	0	0	0	0	0	0	13	4	0	0	0
17	Hornbill	0	0	0	0	0	0	0	0	0	0	0
18	Cheetal	75	20	75	16	12	6	0	0	0	0	0
19	Rhesumacaque	145	300	195	175	36	40	0	0	0	0	0
20	Pangolin	0	0	0	0	5	0	0	0	0	0	0
21	Hare	68	52	67	100	65	57	0	0	0	0	0
22	Hyaena	17	9	17	6	8	9	0	0	0	0	0
23	Jackal	57	28	82	45	44	33	0	0	0	0	0
24	Sambhar	4	2	4	0	0	0	0	0	0	0	0
25	Fox	18	8	16	6	0	0	0	0	0	0	0
26	Bear	8	15	15	0	0	4	0	0	0	0	0
27	Junlge Cat	21	5	0	0	0	0	0	0	0	0	0
28	Nilgai	2	0	0	0	0	0	0	0	0	0	0
29	Vulture	77	0	0	0	0	0	0	0	0	0	0
30	Shahi	2	4	0	0	0	0	0	0	0	0	0
	कुल	715	596	805	660	455	325	2988	1339			7883

**Counting of Wild Animals of wildlife sanctuary
Year 2011**

Sl.No	Name of Wild Animal	Name of Wildlife Sanctuary										Total
		Hazaribag Wildlife Sanctuary	Koderma Wildlife Sanctuary	Lawalong Wildlife Sanctuary	Parasnath Wildlife Sanctuary	Topchanchi Wildlife Sanctuary	Gautam Budha Wildlife Sanctuary	Palkot Wildlife Sanctuary	Dalma Wildlife Sanctuary			
1	2	3	4	5	6	7	8	9	10	11		
1	Elephant	0	0	0	0	0	0	0	0	0	0	0
2	Sloth bear	0	0	0	0	0	0	0	0	0	0	0
3	Wild boar	22	29	175	105	92	63	0	0	0	0	486
4	Barking deer	31	11	48	15	8	8	0	0	0	0	121
5	Langoor	0	0	0	30	15	0	0	0	0	0	45
6	Monkey	0	0	0	0	0	0	0	0	0	0	0
7	Wildkey	0	0	0	0	0	0	0	0	0	0	0
8	Wild dog	0	0	0	0	0	0	0	0	0	0	0
9	Leopard	2	0	4	3	2	0	0	0	0	0	11
10	Indian gaint squirrel	20	0	0	0	0	0	0	0	0	0	20
11	Jungle fowl	28	35	49	82	92	75	0	0	0	0	361
12	Wolf	13	11	0	13	17	8	0	0	0	0	62
13	Common mongoose	14	12	0	0	0	0	0	0	0	0	26
14	Common Peafowl	56	56	48	55	62	20	0	0	0	0	297
15	Snake	0	0	0	0	0	0	0	0	0	0	0
16	Hornbill	0	0	0	0	0	0	0	0	0	0	0
17	Cheetal	23	18	75	14	12	4	0	0	0	0	146
18	Rhesumacaque	145	300	195	175	32	35	0	0	0	0	882
19	Pangolin	0	0	0	0	5	0	0	0	0	0	5
20	Hare	68	52	67	100	65	57	0	0	0	0	409
21	Hyaena	17	9	17	6	8	9	0	0	0	0	66
22	Jackal	54	26	82	45	42	33	0	0	0	0	282
23	Sambhar	2	2	4	0	0	0	0	0	0	0	8
24	Fox	18	8	14	2	0	0	0	0	0	0	42
25	Bear	8	13	15	0	0	3	0	0	0	0	39
26	Junlge Cat	21	5	0	0	0	0	0	0	0	0	26
27	Nilgai	1	0	0	0	0	0	0	0	0	0	1
28	Vulture	7	0	0	0	0	0	0	0	0	0	7
29	Shahi	2	2	0	0	0	0	0	0	0	0	4
	कुल	552	589	793	645	452	315	0	0	0	0	3346

**Counting of Wild Animals of wildlife sanctuary
Year 2010**

Sl.No	Name of Wild Animal	Name of Wildlife Sanctuary										Total
		Hazaribag Wildlife Sanctuary	Koderma Wildlife Sanctuary	Lawalong Wildlife Sanctuary	Parasnath Wildlife Sanctuary	Topchanchi Wildlife Sanctuary	Gautam Budha Wildlife Sanctuary	Palkot Wildlife Sanctuary	Dalma Wildlife Sanctuary			
1	2	3	4	5	6	7	8	9	10	11		
1	Elephant	0	0	0	0	0	0	0	0	0	0	
2	Sloth bear	0	0	0	0	0	0	0	0	0	0	
3	Wild boar	0	28	0	80	75	70	0	0	0	253	
4	Barking deer	0	24	0	10	4	2	0	0	0	40	
5	Langoor	0	0	0	18	12	0	0	0	0	30	
6	Monkey	0	0	0	0	0	0	0	0	0	0	
7	Wildkey	0	0	0	0	0	0	0	0	0	0	
8	Wild dog	0	0	0	0	0	0	0	0	0	0	
9	Leopard	0	0	0	3	2	0	0	0	0	5	
10	Indian gaint squirrel	0	20	0	0	0	0	0	0	0	20	
11	Jungle fowl	0	35	0	65	75	75	0	0	0	250	
12	Wolf	0	10	0	10	15	10	0	0	0	45	
13	Common mongoose	0	12	0	0	0	0	0	0	0	12	
14	Common Peafowl	0	56	0	35	46	20	0	0	0	157	
15	Snake	0	0	0	0	0	0	0	0	0	0	
16	Hornbill	0	0	0	0	0	0	0	0	0	0	
17	Cheetal	0	18	0	16	8	6	0	0	0	48	
18	Rhesumacaque	0	300	0	160	15	25	0	0	0	500	
19	Pangolin	0	0	0	0	1	0	0	0	0	1	
20	Hare	0	68	0	60	52	60	0	0	0	240	
21	Hyaena	0	9	0	3	6	9	0	0	0	27	
22	Jackal	0	45	0	20	35	30	0	0	0	130	
23	Sambhar	0	2	0	0	0	0	0	0	0	2	
24	Fox	0	18	0	1	0	0	0	0	0	19	
25	Bear	0	11	0	0	0	3	0	0	0	14	
26	Junlge Cat	0	5	0	0	0	0	0	0	0	5	
27	Shahi	0	1	0	0	0	0	0	0	0	1	
	कुल	0	662	0	481	346	310	0	0	0	1799	