

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

**Name-** Rituparna gogoi

**Class-** B.sc 5th sem **Roll no-** 22120056

**Reg. no-** S2205412.

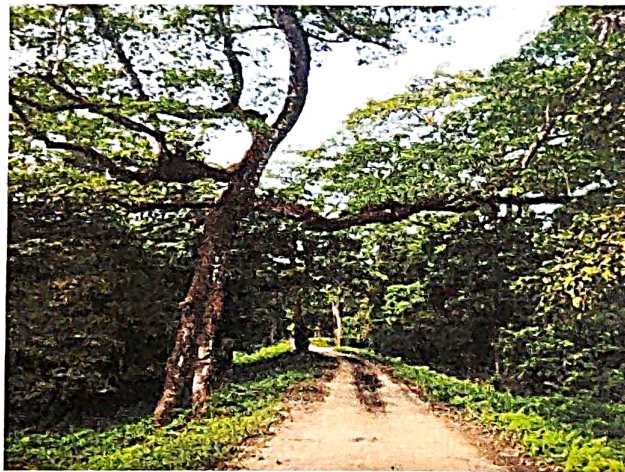
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5/12/24  
(EXT.)

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## KAZIRANGA NATIONAL PARK



### Submitted by-

Name- Miss Puja Gogoi

Class- 5th Semester Roll no- 22 120097 (115)

Reg. no- 32205409

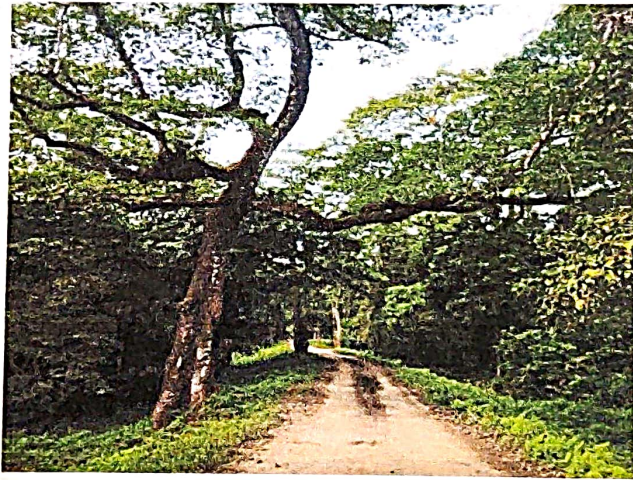
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Examined  
5/12/24  
(EXT.)

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## KAZIRANGA NATIONAL PARK



### Submitted by-

**Name-** Priyanshu Bora

**Class-** B.Sc 5th Sem **Roll no-** 22120050

**Reg. no-** 52205407

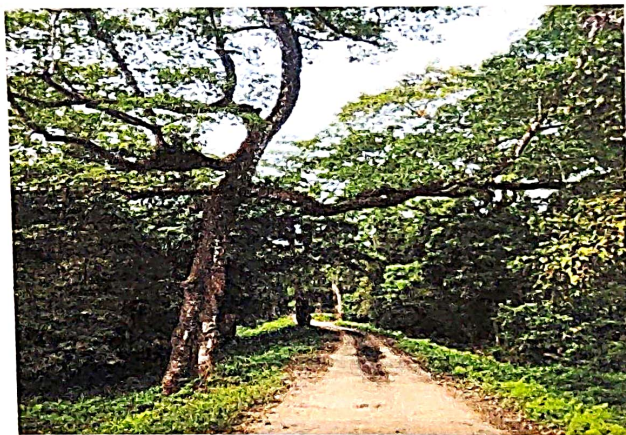
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*Examined*  
*5/12/24*  
*(Ext.)*

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## KAZIRANGA NATIONAL PARK



### Submitted by-

**Name-** Miss Priya Sonowal

**Class-** B.Sc 5th Sem **Roll no-** 22120095

**Reg. no-** 52205403

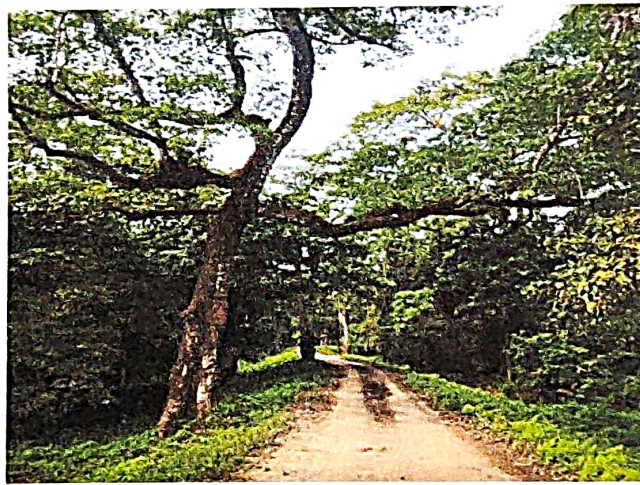
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*Examined*  
*5/12/24*  
*(Ext.)*

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

**Name-** Miss Jekhika Kachari

**Class-** B.Sc 5th Sem **Roll no-** 22120086

**Reg. no-** 32205379

**Dept. of Zoology, N.N.Saikia College, Titabar**

Examined  
15/12/24  
(Ext.)

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

Name- Dimpay Gogoi

Class- B.Sc 5<sup>th</sup> Sem Roll no- 22120075

Reg. no- S2205356

Dept. of Zoology, N.N.Saikia College, Titabar

Examined  
ST/21/24  
(Ext.)

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

Name- *Bristi Kachari*

Class- *B.Sc 5<sup>th</sup> sem* Roll no- *22120073 (78)*

Reg. no- *82205349*

Dept. of Zoology, N.N.Saikia College, Titabar

*Examined*  
*[Signature]*  
*5/12/24*  
*(EXT-)*

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

Name- Miss Jahnavi Saikia

Class- 5<sup>th</sup> sem. Roll no- 22120082

Reg. no- S 2205366

Dept. of Zoology, N.N.Saikia College, Titabar

Examined  
5/12/24  
(Ext.)



# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

Name- Tinamoni Koch

Class- B.S.c 5<sup>th</sup> Sem Roll no- 22120110

Reg. no- S2205431

Dept. of Zoology, N.N.Saikia College, Titabar

*Examined*  
*S212/24*  
*(Ext.)*

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

Name- Bikash Chutia

Class-BS.c 5<sup>th</sup> Sem Roll no- 22120017

Reg. no- S2205339 .

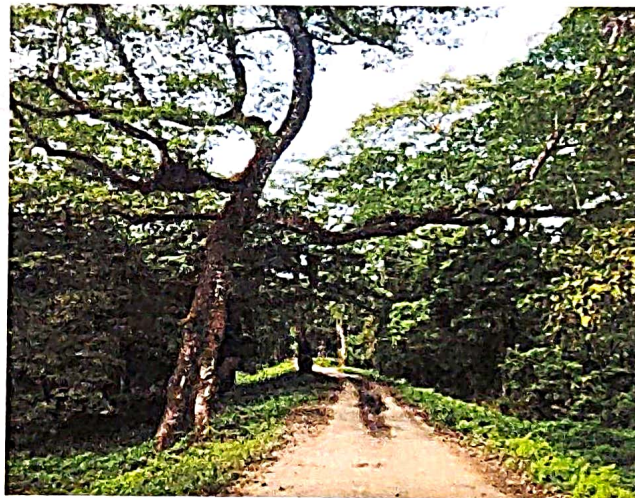
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Examined  
5/12/24  
(Ex.A.)

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

Name- Manash Jyoti Kachari

Class-B.Sc 5th sem Roll no- 22120039

Reg. no- S2205385

Dept. of Zoology, N.N.Saikia College, Titabar

Examined  
5/12/24  
(Ext.)

# 2024 FIELD STUDY REPORT



## KAZIRANGA NATIONAL PARK



### Submitted by-

**Name-** Miss Shabwati Hazarika

**Class-** B.Sc 5<sup>th</sup> Sem **Roll no-** 22120105 (91)

**Reg. no-** 32205420

**Dept. of Zoology, N.N.Saikia College, Titabar**

*Examined*  
*5/12/24*  
*(Ext.)*

## ACKNOWLEDGEMENT

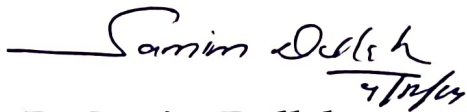
I would like to show my gratitude and give thanks to Dr Litol Baruah, the Principal of N.N. Saikia College, Titabar who has given the permission to go on our educational trip to Kaziranga National Park. Also, I would like to convey my heartfelt thanks to the respected teachers of our Zoology Department, H.o.D Mrs Mitali Chetia, Dr. Manashi Bortamuly, Dr. Samim Dullah and Mrs Priyanka Saikia for providing us moral support and guiding us in carrying out our field study.

Special thanks to Dr. Manashi Bortamuly and field guide for providing us proper guidance and being with us throughout our field trip. At last but not the least, heartfelt thanks to my parents who gave me the financial support for the trip and also thanks to my friends for their contribution and support.

...Shawati Hazarika...  
B.sc 5<sup>th</sup> Semester  
Dept of Zoology

## CERTIFICATE

This is to certify that a field study to the Kaziranga National Park was carried out by .....Shaswati...Hazanika..... of B.Sc. 5<sup>th</sup> semester of zoology (major) of Nanda Nath Saikia College, Titabar under our supervision and guidance. We wish her all the success for her endeavour.



**Dr Samim Dullah**  
Assistant professor  
Dept. of Zoology  
N.N. Saikia College



**Dr Manashi Bortamuly**  
Assistant professor  
Dept. of Zoology  
N.N. Saikia College

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## INTRODUCTION

***" Tell me and I'll forget ,show me and I may remember involve me and I learn" - Benjamin Franklin***

***In the study of the different subjects of science the knowledge acquired from the book is not enough to satisfy our knowledge about the different topics of science, The name "science" means the verification of proof of every bit of knowledge of books through practical and it is must important as it help us in obtaining more details and accurate knowledge of science topics, which makes the subject more interesting.***

***The subject of zoology deals with the animal kingdom .It is the study of animal life, with many specialization based on the type of animal or characteristics of animal studied .This can also include how animals interact with their environment and with other species of animals .***

***A fieldtrip or fieldwork in zoology refers to any research conducted in a natural setting rather than in laboratory, this can include observation of animal behaviour in the wild , studying on ecosystem to catalogue the species found there , or taking tissue and blood samples to study population genetics.***

***On 19.10.2024,the dept.of zoology arranged a field study programme at Kaziranga National park for. Students in the 5<sup>th</sup> sem zoology (major) to fulfil the requirements for the practical paper.***



## **IMPORTANCE OF FIELD STUDY**

- 1. Theoretical knowledge is incomplete without practical experience. Therefore field visit and field study facilitate us to observe animal behaviour and ecosystem through visual observation.**
- 2. Engaging with real-world environments fosters a deeper understanding of concepts learned in the classroom.**
- 3. Field visit encourage teamwork and collaboration, helping to make stronger friendship and network among students, teachers as well as the field workers.**
- 4. By field visit we can gain firsthand experience with various habits, habitats, territories, and ecology of different species, enhancing the appreciation of biodiversity.**
- 5. Fieldwork enhances critical observational skill essential for ethological research and data collection in zoology.**
- 6. Field visit often provide opportunities to participate in research projects, enhancing our practical skills and resumes.**

## **DESCRIPTION OF OUR JOURNEY**

We the students of 5<sup>th</sup> semester, zoology dept. of Nanda Nath Saikia College, started our journey on 19.10.2024 at morning 5:30 am from our college campus by bus. Through NH37 our journey continued. On the way to our destiny, we crossed Assam Agricultural University, NEIST, Dergaon, Rangamati, Badulipar, Numaligarh, Bihora Tea Estate and many historical places. At last we reached Bokakhat at about 7:40 am and then we breakfast at 7:45 am. We took jeeps from Bokakhat to Kaziranga at about 7:55 am. On reaching Kaziranga we entered to the ticket counter for our tickets at 8:38 am. At 9:15 am we entered by jeep into central range (Kohora range) of Kaziranga National Park. It is the main entrance of the world heritage site Kaziranga National Park that lies between Western and Eastern range. It is a flora & fauna rich range with many ecosystem & biodiversity.

### **About the study area**

**Location:** K.N.P is located in the Golaghat and Nagaon regions of Assam , India. It is also placed beside the Brahmaputra River on the North and Karbi Anglong mounts on the south.

**Boundary:** The southern border of the park is roughly defined by the Mora Dipholu River. Further south are hills of Barail and Mikir. The Brahmaputra river constitutes dynamically changing Northern boundary of the park.

**Topography:** The land is quite level all over the park, which is mainly covered by dense and tall elephant grass due its flood- plain ecosystem. A few pockets of tropical semi- evergreen and deciduous forests also occur within the park area. K.N.P is mostly flat expanses of fertile alluvial silt, exposed sandbars, riverine flood-formed lakes called Beels and elevated flats called Chapories where animals shelter during floods. It is home to a wide variety of fauna, including mega animals and micro animal.

**Stratification of the forest:** Inside the forest we saw vertical stratification of the habitat of the living components .The bottom of the forest is always occupied by the deer, elephants, one horned rhino, wild boar etc making a terrestrial and aquatic community. The

uppermost part of the habitat is found to be covered by the birds like Indian roller, bee eater, eagle, asian palm swift etc.

## **FLORA & FAUNA OBSERVED**

### **FAUNA-**

**One horned rhinoceros:** It is the largest of the rhino species with a single horn found in both males & females. Horn colour is naturally black. Skin of the rhinoceros has thick silver-brown cover. Scientific name- *Rhinoceros unicornis*. They were mostly seen on riverine and tall grasses.



**Indian Elephants:** They are the largest mammals in Kaziranga. It has a large head, two laterally folded ear, a large trunk and has grey coloured skin. Only male Indian elephants can grow tusks. They were seen grazed in the tall grasses. Scientific name- ***Elephas maximus indicus.***



**Hog deer-** Kaziranga National Park is home to a large population of Hog deer. Skin coat is dark-brown in colour. The antlers of male hog deer are typically three tined whereas female lack antlers. Scientific name- ***Axis porcinus.***



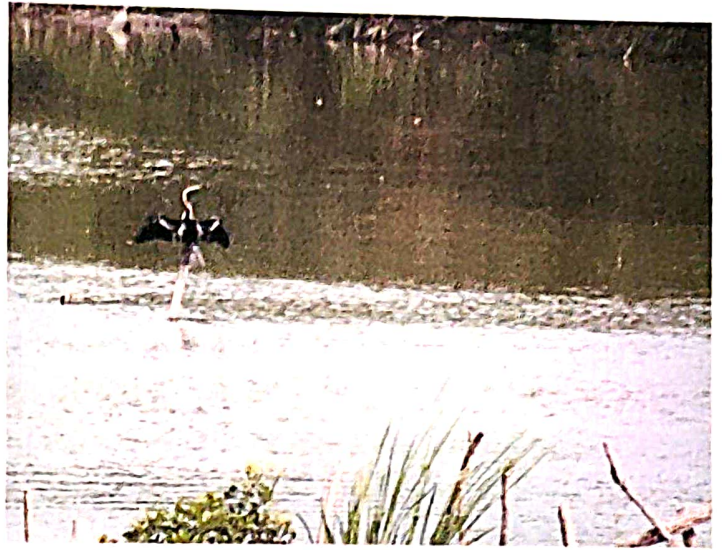
**Wild boar:** Wild boar is a bulky, massively built animal with short and relatively thin legs. Their trunk is short & robust. The structure of the head is well suited for digging. It has a double layer of gray-brown fur in the body. Wild boars in Kaziranga inhabit grasslands, forest, & riverine areas.



**Rhesus monkey:** Rhesus monkeys are brown in colour which is fully covered with fur. They can live in trees depending on their habitat and also can live in the ground. They are good climbers & jumpers.

# BIRDS

**Darters:** Darters are also known as snakebird. Darters are large, slender, long-necked water birds. Their backs are usually black or brown, and their breasts are varying shades of brown & white. They have silvery wing markings. It swims nearly submerged with its head & neck showing above water and darting snakelike from side to side.



**White wagtail:** Small species of bird with a combination of black, white, and gray feathers. It is a slender bird with the characteristic long, constantly wagging tail of its genus. It can be found in a variety of habitats like wild grassy areas, wetlands. Scientific name- *Motacilla alba*.



**Black necked stork:** They are stately birds with bluish-black heads, necks & bills. They have white bellies, mostly white wings with a black panel in the middle & long red legs. They are seen in wetlands. Scientific name- *Ephippiorhynchus asiaticus*.



**Great egret:** They are white colour bird having long, slender neck & black legs. These birds are commonly found in wetlands, ponds, riverine areas. Scientific name- *Ardea alba*



**Siberian stonechat:** Males have black head, white collar, female are paler with a brownish head and white neck patches. Commonly found in grasslands, scrublands. Scientific name- *Saxicola maurus*.



**Black drongo:** Black drongos are glossy black with a wide, forked tail & dark browned eyes bird. Scientific name- *Dicrurus macrocercus*.



**Crested serpent eagles:** This medium-sized bird of prey has a large head with a short, dark crest and bare yellow face. It has wide wings and in flight it displays a distinctive white band near the end of its tail.





**Woolly-necked storks:** They are the medium sized wading bird with a white neck, black body, and a dark salmon tipped bill. It has long red legs and deeply forked tail. Scientific name- ***Ciconia episcopus.***



**Little**

**cormorant ( *Phalacrocorax niger* )**

**Jungle fowl**

**Green bee eater**

**Indian roller ( *Coracias benghalensis* )**

**King fisher ( *Alcedinidae* )**

**Spot-billed pelican**

**Ibis ( *Threskiornithinae* )**

**Asian palm swift ( *Cypsiurus balasiensis* )**

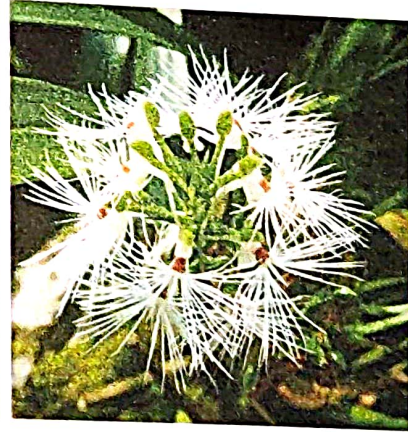
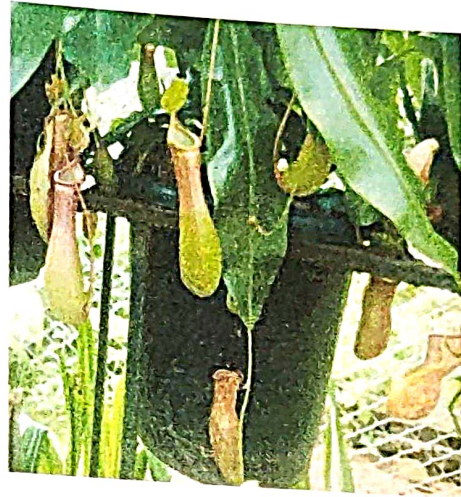
**Long-tailed shrikes .**

This safari was ended at about 11:30 am and on returning we clicked our group photos near Kathpora tower with our respected teachers Dr. Manashi Bortamuly madam, Dr. Samim Dullah madam, Priyanka madam and our friends.



After that, we visited Kaziranga National Orchid & Biodiversity Park located at the distance away from 2km from the central range of Kaziranga. Before entering to the park we had lunch at about 12:30 pm outside the park. After lunch we entered to

the park and observed variety of orchid species along with other species of plants.

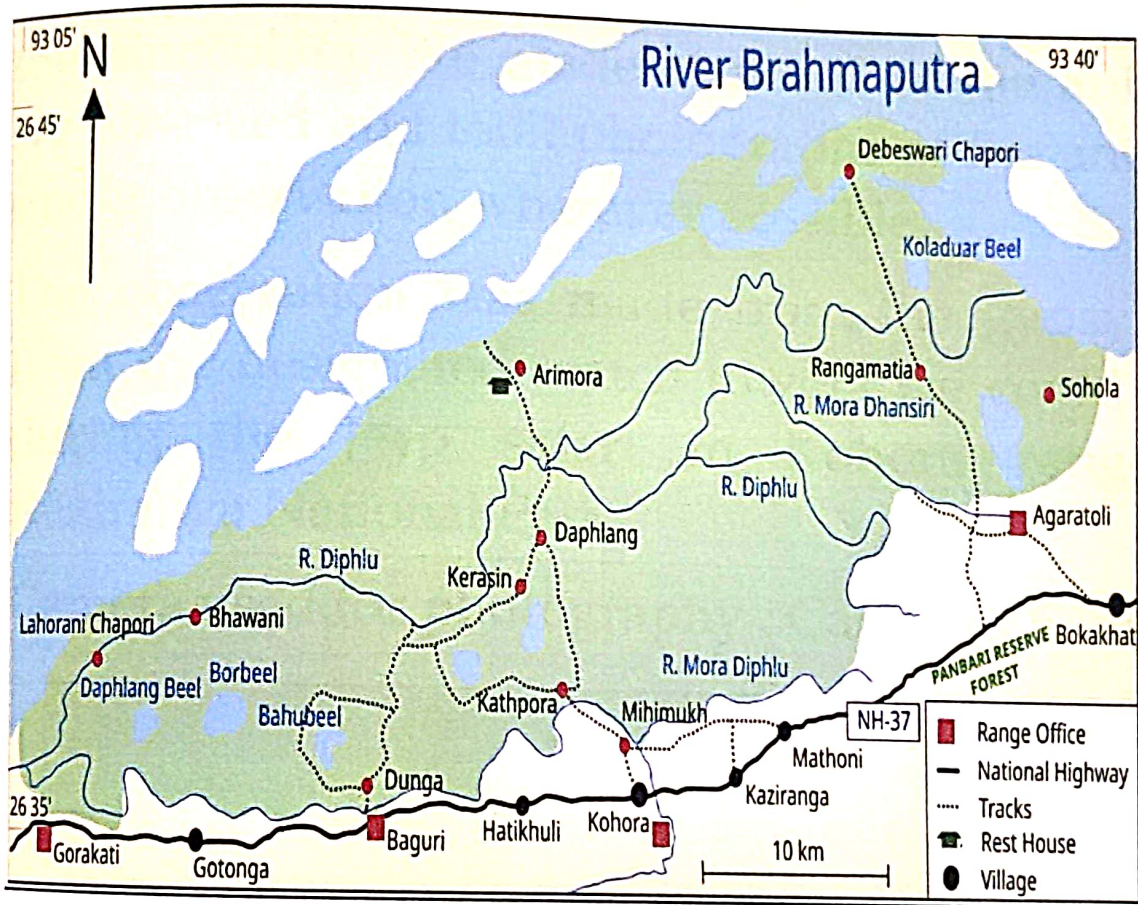


After that we ended our journey and returned to our beloved home & reached at about 6:00 pm.



## HISTORY OF KAZIRANGA NATIONAL PARK

In 1905 the park was established as the Kaziranga Proposed Reserve forest with an area of 232 square km. In 1908 the park was designated as a reserve forest. In 1916 the park was renamed the Kaziranga Game Sanctuary. In 1938 the park was opened to visitors. In 1950 the park was renamed the Kaziranga Wild Life Sanctuary. In 1968 the Assam National Park Act was passed, declaring the area a National park. In 1985 UNESCO declared Kaziranga a World Heritage Site for its unique natural environment. In 2006 Kaziranga was declared a Tiger Reserve.



## Methodology

We simply observed the animals and plants usually with our naked eyes and sometimes with the binoculars. We made a record of the animals we observed and took photographs of the animals under observation wherever possible.

The observation was made from the gypsy and from the designated watch towers we could visit during the Jeep safari in Kohora range of Kaziranga National Park.

Camera used for photography : Canon EOS 1300D

## **Discussion**

**Role of fire and flood in maintaining the habitat of K.N.P. -**

Fire and flood in Kaziranga have an important role to play in maintaining of the Kaziranga National Park. Burning is done to encourage the grow of new grass. The flood water adds fertility of the soil with fresh green grasses throughout the year.

High floods are however definitely injurious to the Kaziranga National Park. As large numbers of animals are lost during such high floods, they however do not occur every year. For such reasons fire and flood are considerable as essential agents for maintaining the present vegetation stage, inside the Kaziranga National Park.

K.N.P being flood plain ecosystem, annual flooding is a regular phenomenon which helps in maintaining a variety of habitats suitable for many threatened species. Flood in Kaziranga National Park is a boon as well as curse.

## CONCLUSION

*Field study supplies the fundamental knowledge about subject of study and the habitat of floras and faunas in different habitat ,climate change.*

*Field study is very precious trip to make us aware of not only the many varieties of biological species, but also about climatic condition and surrounding environment along with the routes to that place.*

*Kaziranga orcid park is a important place due to the availability or diversity to orcid and many other important plant species but now have observed that this diversity is dehiscings due to its dence flora Wnl mesmerises the trip for tourists. It helps us to could extra knowledge or information about the orcid as well as other types of plants which will surely help us for the future.so , field study is included in B.sc 5 th semester syllabus by considering these parts .*

*Kaziranga national park , nature 's extraordinary beauty and pleasure gives the golden opportunity to the students to acquire knowledge.*