

A FIELD STUDY TOUR REPORT ON ZOOLOGY



Submitted to:-

*The Department of Zoology, C.I. College, Bishnupur
In Partial fulfilment for the requirement of the
B.Sc. 1st Semester in Zoology Examination 2018,
Manipur University, Canchipur, Imphal*

Submitted By:-

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M.U. Roll No. : *7100422*

Regd. No.:

B.Sc. *1st Sem*

DEPARTMENT OF ZOOLOGY
C.I.COLLEGE, BISHNUPUR,
GOVERNMENT OF MANIPUR

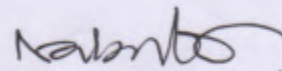
CERTIFICATE

This is to certify that Salam Angali Devi B. Sc 1st Semester whose M.U. Roll no. 7100422 and Registration No. had duly participated the necessary study tour at Keibul Lamjao National Park, Manipur conducted by Zoology Department C.I. College, Bishnupur on 24th November, 2018 in part of the completion of the semester Examination as per syllabus of the B.Sc 1st Semester. Manipur University.

Salam Angali Devi is a student of this college offering Bio-Chemistry as the stream and also completed the laboratory work satisfactorily.

Teacher in Charge:

1. Th. Nabakishor Singh Assoc. Prof. (HOD)
2. I. Angouba Singh (Assoc. Prof)
3. M. Bimola Devi (Assist. Prof.)
4. S. Dinakarani Devi (Assist. Prof.)
5. P. Romendro Singh Attendant



Th. Nabakishor Singh
Dept. of Zoology, HOD
C.I. College, Bishnupur, Manip

Head of Department
Zoology
C.I. College, Bishnupur

ACKNOWLEDGEMENT

It is my great pleasure to have this chance and expressing my gratitude to all those concerned in organize this tour. It would have been impossible for me to bring out the following report without such a venture as this study tour. In fact it was a great experience from my part to participate and arranging for the tour.

It is also my great pleasure to convey my deep sense of gratitude to all concerned of the Department without whose valuable guidance, advice and personal help, the tour shall not be a meaningful and I would not be been in a position to accomplished my presentation.

I also expressed my sincere thanks to my classmates for their keen co-operation rendered to me in the preparation of the tour dairy.

Lastly, but not the least, I would like to Thank the Government of Manipur for the Grant that requisite to conduct the trip.

Date

Salam Anjali Am.

B. Sc. Ist Semester
Dept. of Zoology
C.I. College, Bishnupur, Manipur

FORWARD

This is a report on the Zoological Study Tour at Keibul Lamjao National Park. The tour was carried out entirely by the students of 1st Semester of the College under the guidance and supervision of our experienced teachers of Zoology Dept. C.I. College, Bishnupur, Manipur.

All the financial assistance of the study tour is provided by the Director of Education (U), Government of Manipur. All my classmates and all the concerned of the department including the teacher are co-operating in carrying out this study tour in grand.

CONTENT

1. CERTIFICATE
2. ACKNOWLEDGEMENT
3. FORWARD
4. SKETCH MAP OF THE JOURNEY
5. VALUE OF FIELD STUDY
6. OBJECTIVE OF THE TOUR
7. INTRODUCTION
8. ACCESSORIES FOR COLLECTION
9. TOUR REPORT
10. PHOTOGRAPHY OF THE COLLECTED SPECIMEN
11. CONCLUSION

ASSESORIES OF THE STUDY TOUR:

1. FIRST AIDS BOX
2. INSTRUMENT BOX
3. A FIELD NOTEBOOK AND A PENCIL
4. SPECIEMENT BOTTLE & JAR
5. SOME POLYTHENE BAGS
6. NET
7. MAGNIFYING GLASS
8. CAMERA
9. FORMALENE BOTTLE (4%)
10. CHLOROFORM
11. DISTILLED WATER
12. A WATER BOTTLE
13. PACKED LUNCH
14. HAND GLOVE

INTRODUCTION

To learn the natural science as a subject, it is important to make the student a better understanding of the subject by allowing them to see and observe the natural environment. Natural Park, sanctuary, national park, forest and zoological garden are appropriate place to study the animal in-situ as well as ex-situ. Nowadays we observe and see the degradation of natural environment due to different anthropogenic activities. Some of the anthropogenic activities are construction of road, urbanization, construction of dam, firewood and timber collection, conversion of agricultural land, shifting and Jhum cultivation etc. which directly degrade the natural habitat of the wild life.

One major factor which leads to such degradation due to anthropogenic activities is Ignorance of the local people. During such field study tour we have an opportunity to interact with different people with different background. During such interaction we are also getting an opportunity to give some message to the people about the importance of WILD LIFE, the need of conservation of NATURE and NATURAL RESOURCES including the different FLORA and FAUNA available in different ecosystem.

Fortunately nowadays various voluntary organization including different NGOs, Local Clubs come forward to conserve the environment of Keibul Lamjao. When we visit, the National Park authority has informed us that one NGO (ATREE) organized a National Workshop inside the National Park during 2016 in order to give the message of importance of the conservation of nature and natural resources. The volunteer of the local club informed us that the ATREE has its own portal system which assists any layman in identification of any variety of plant or animal. The only thing is we have to upload the photograph of the specimen to their portal system and they will provide the reliable information. We are also inform that different resource persons mentioned the importance of involvement of local people in exploration of biodiversity as well as conservation aspect and information.

Value of Study Tour:

Field study is an essential part of the study of life Science. Only classroom instructions cannot bring the all round development of the student. To widen the sphere of mental level of the student, they should be given a chance to get direct and firsthand experience to see the things themselves. To study animal in the natural environment where all the animals live in their natural habitat is one of the most interesting and useful experience for a student of Biology. This enhance the knowledge that we learnt from our classroom discussion and Laboratory experiences in which we can observe, study and experience is quite a good thing.

Another important aspect is apprehending knowledge of thing is always required for one of the start of a particular study. And one can hope to achieve experience of the interaction of the living thing with their environment from such field trip. In fact classroom study and field study are supplementary to each other. It has also relief from daily classroom teaching when students spend a few hours in an informal atmosphere. It also motivates the students to learn science in their first hand and stimulates their interest. The scientific facts and principles become more realistic to the students when they see the relation between science and the society. Moreover students learn to co-operate amongst themselves and also with the member of the community. As a result it develops the power of critical thinking so that they apply element of scientific method. Lastly but not the least, it develops leadership and self confidence in the students.

Keeping all these in view and for partial fulfillment of our syllabus, our teacher took keen interest in organizing such study tour for us.

OBJECTIVE OF THE STUDY TOUR:

1. To collect and observe with identify the flora and fauna of Keibul Lamjao National Park.
2. To study the environment of the National Park
3. To observe the habitat of the collected species.
4. To take photograph of the collected species for documentation and
5. Collection of species for both dry and wet preservation.

TOUR REPORT

It was a bright sunny morning of 24th November 2018 Saturday. We arrived at Department of Zoology, C. I. College, Bishnupur, Manipur at about 7 a.m. Then our teachers instructed us to assemble in the front of Zoology Department. There are 55 students and three teacher- guide one non teaching staffs altogether 46 in numbers. During the assembly we are instructed about the journey does and don't and the purpose of the trip etc. The we are instructed to proceed toward the hired bus MN01-224, Express.

We reached the gate of the spot at around 9 a.m . Then we talk to the gate keeper and show the reliable documents who in turn submit the same to officer. The officer gives the information which was really very helpful to us during our study tour. He also provides us a waiting shed inside the park. There we took our breakfast at around 10am. After breakfast we start our survey. We are doing different activities according to our group. Some of us are collecting aquatic insect and some are collecting the land animals while some are taking photographs of different available animals as well as the beautiful landscape. The first half collection is over around 12.30 pm. Then we have our lunch around 1pm which is prepared by the non teaching staff. After lunch we continue the second part of our collection outside the park around Keibul particularly at the market and also interact with the local people to know the locally available diversity of animal in the environment of the Keibul village.

DEPARTMENT OF ZOOLOGY
C.I. College, Bishnupur, Manipur
COLLECTED MUSEUM SPECIEMEN



Chanda nama (Ngamhai)

Identification Data:

Place of Collection: Keibul

Type of Habitat: Lake

Scientific name: *Chanda nama*

Local Name: *Ngamhai*

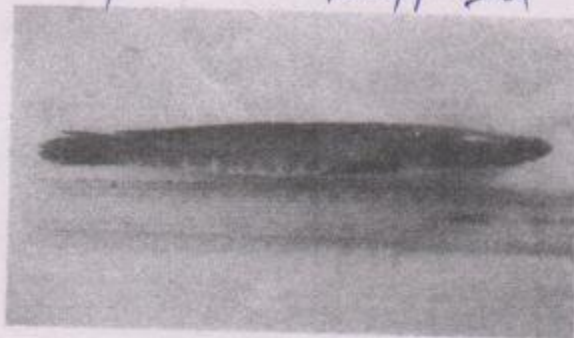
Colour in Fresh: pale in colouration

Collected by: Salan Anjali An

Date of Collection: 24th Nov 2018

Remark

The body is likely transparent. The double dorsal fin is peculiar supported by strong fin rays.



Channa striata (Porom)

Identification Data:

Place of Collection: Keibul

Type of Habitat: Lake

Local Name: *Porom*

Remark

Colour in Fresh: Blackish & whitish

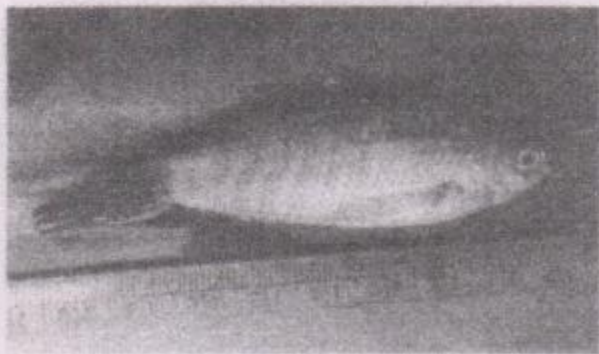
Scientific name: *Channa striata*

Date of Collection: Salan Anjali An

Collected by: 24th Nov. 2018

Carnivorous and air breathing fish. The mouth is lined with rows of horny teeth.

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COLLECTED MUSEUM SPECIEMEN



Trichogaster fasciata (Ngapemma)

Identification Data:

Place of Collection: Keibul

Type of Habitat: lake

Local Name: *Ngapemma*

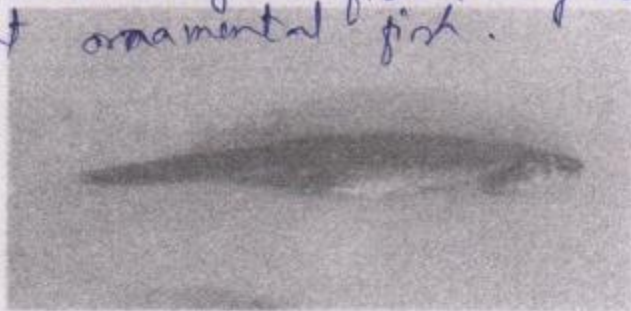
Remark: Important small indigenous fish. Body has beautiful colouration and important ornamental fish.

Colour in Fresh: Mixed colour of bluish, blackish, whitish & orange

Scientific name: *Trichogaster fasciata*

Collected by: Salam Arjati Sin

Date of Collection: 24th Nov. 2018.



Esomus danricus (Ngasang)

Identification Data:

Place of Collection: Keibul

Type of Habitat: Lake

Local Name: *Ngasang*

Remark: Body covered with cycloid scale, presence of a pair of long barbel. There is a bluish strip along the middle of the body.

Colour in Fresh: Silvery and bluish.

Scientific name: *Esomus danricus*

Collected by: Salam Arjati Sin

Date of Collection: 24th Nov. 2018.

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C.I. College, Bishnupur, Manipur
COLLECTED MUSEUM SPECIEMEN



Puntius manipurensis (Ngakha Meingangbi)

Identification Data:

Place of Collection: Keibul

Type of Habitat: lake

Local Name: *Ngakha Meingangbi*

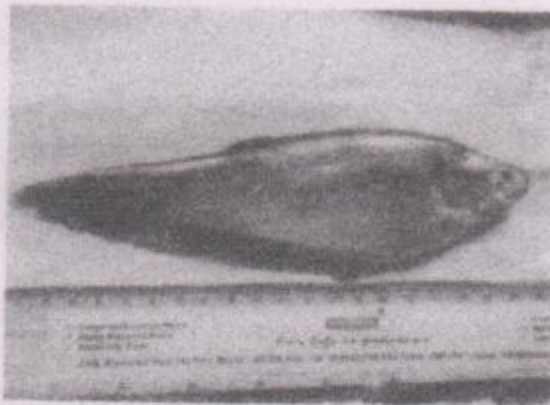
Remark: Small indigenous fish with cycloid scale. There is a faint spot near the caudal fin.

Colour in Fresh: whitish in color with a reddish strip in the middle of the body

Collected by: Salun Arjali Devi

Date of Collection: 24th Nov 2018

Scientific name: *Puntius manipurensis*



Notopterus notopterus (Ngapai)

Identification Data:

Place of Collection: Keibul

Type of Habitat: lake

Local Name: *Ngapai*

Remark: The body is spindle shaped with elongated anal fin. Body covered with small cycloid scale.

Colour in Fresh: Blackish and Silvery

Collected by: Salun Arjali Devi

Date of Collection: 24th Nov 2018.

Scientific name: *Notopterus notopterus*

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COLLECTED MUSEUM SPECIEMEN



Lepidocephalus guntea (Ngakijou)

Identification Data:

Place of Collection: Keibul
Type of Habitat: Paddy field
Local Name: Ngakijou

Remark: Body without scale. Presence of one spine near the eye.

Colour in Fresh: Greyish with black spots over the body

Scientific name: *Lepidocephalus guntea*

Collected by: Salam Anjali Sin

Date of Collection: 24th Nov. 2018



Monopterus albus (Ngaprum)

Identification Data:

Place of Collection: Keibul
Scientific name: *Monopterus albus*
Type of Habitat: Bank of Stream

Remark: The fish is elongated without any scale over the body.

Local Name: Ngaprum

Colour in Fresh: Light Orange with blackish spots over the body

Collected by: Salam Anjali Sin

Date of Collection: 24th Nov. 2018.

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COLLECTED MUSEUM SPECIEMEN



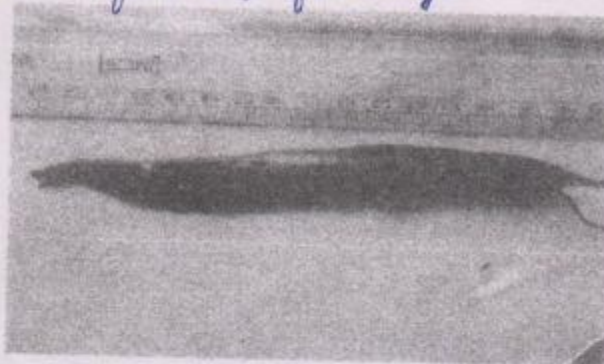
Anabas testudeneus (Ukabi)

Identification Data:

Place of Collection: Keibul
Type of Habitat: Paddy field
Local Name: Ukabi

Collected by: Salun Arjali Devi
Date of Collection: 24th Nov 2018
Colour in Fresh: Blackish in colour with greenish strip
Scientific name: *Anabas testudeneus*

Remark: Presence of cycloid scale and a series of spines on the dorsal fin as firm rays.



Heteropneustes fossilis (Ngachik)

Identification Data:

Place of Collection: Keibul
Type of Habitat: Lake

Local Name: Ngachik

Scientific name: *Heteropneustes fossilis*

Date of Collection: 24th Nov. 2018

Colour in Fresh: Blackish on the dorsal surface and whitish on the ventral surface.

Collected by: Salun Arjali Devi

Remark: Presence of a group of barbels around the mouth and body without scales.

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COLLECTED MUSEUM SPECIEMEN



Fig. 1 Pila sp. (Tharoi ningkhabi) 2. Pila globosa (Labuk tharoi) 3. Pila sp (Nung tharoi)

Identification Data:

Place of Collection: Keibul

Scientific name: Pila sp

Type of Habitat: Fish farm

Local Name: Tharoi ningkhabi

Colour in Fresh: Blackish

Collected by: Salam Arjati Dn

Date of Collection: 24th Nov, 2018

Remark: Edible mollusca with wrinkle shell.

Identification Data:

Place of Collection: Keibul

Type of Habitat: Paddy field

Local Name: Labuk tharoi

Remark: Edible mollusca

Colour in Fresh: Blackish

Scientific name: Pila globosa

Collected by: Salam Arjati Dn

Date of Collection: 24th Nov 2018

is very thin and with smooth shell. The shell breakable.

Identification Data:

Place of Collection: Potshangbam

Scientific name: Pila sp

Type of Habitat: Stream

Remark:

Local Name: Nung tharoi

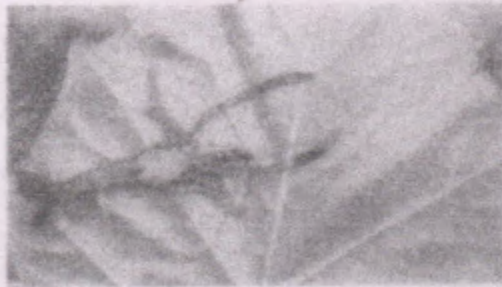
Colour in Fresh: Blackish

Collected by: Salam Arjati Dn

Date of Collection: 24th Nov 2018

Edible mollusca with a very thick and hard as well as wrinkle shell.

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COLLECTED MUSEUM SPECIEMEN



Palaemon sp 1 (Khajing achouba)



Palaemon sp 2 (Khajing macha)

Identification Data:

Place of Collection: Keibul

Scientific name: Palaemon sp 1

Type of Habitat: Lake

Local Name: Khajing achouba

Colour in Fresh: Blackish and whitish.

Collected by: Salan Arjati Devi

Date of Collection: 24th Nov. 2018.

Remark: Important crustacean food. Two varieties are observed.

Identification Data:

Place of Collection: Keibul

Type of Habitat: Lake

Scientific name: Palaemon sp 2

Local Name: Khajing macha

Colour in Fresh: Blackish and whitish.

Collected by: Salan Arjati Devi

Date of Collection: 24th Nov. 2018.

Remark: Presence of numerous walking legs.

CONCLUSION

Our study tour was quite interesting and the importance of such type of study tour in natural science, particularly in Zoology is realized only when we were led to the spot where we can observe the existence of animal in their natural habitat. The value of natural environment is realized only when we collect the first hand information directly from the field. After this tour the correlation of the theoretical knowledge and the field knowledge became clear.

An unforgettable memory of the study tour is still in mind as it gives me a sense of collective responsibility in organizing an event particularly in collection of specimen and data on a natural science laboratory.

After participate the tour it arouses me to for the love of nature. In fact it gives me a chance to become a scientist an environmentalist, a bird watcher or an ecologist.

Such study tour particularly this tour inspire me to work voluntarily for the conservation of our environment. I am also greatly motivated by the work of the A TREE and I will find out their official website by visiting GOOGLE. I wish to join the organization and I shall upload my photographs of the collected specimens to their website so that I can inform the availability of different FLORA or FAUNA of our state Manipur to the WORLD.

Once again, I express my gratefulness to all the staff of Zoology department and all concerned who have made the study tour a complete success

Salam Ajale Doui
B.Sc. 1st Sem

Department of Zoology,
C. I. College, Bishnupur, Manipur

LISTS OF STUDENTS:-	M.U. ROLL NO.	SUBJECT	REMARK
1. Joti Kumari Gupta	7100419	Zoology	
2. Pukhrambam Promila Devi	7100420	Zoology	
3. Oinam Priya Devi	7100421	Zoology	
4. Salam Anjali Devi	7100422	Zoology	
5. Alina Salam	7100423	Zoology	
6. Riamei Gaisinlli	7100424	Zoology	
7. Chungamlu Kamei	7100425	Zoology	ST
8. Gaiheil Kamei	7100426	Zoology	ST
9. Sanasam Chingkhengianbi	7100427	Zoology	ST
10. Lamabam Rameshwori Devi	7100248	Zoology	
11. Dhanapiyary Pukhambam	7100429	Zoology	
12. Tayenjam Brajeshwori Devi	7100430	Zoology	
13. Ningthoujam Victoria Devi	7100431	Zoology	
14. Dangmei Chunkimlu	7100432	Zoology	
15. Sweeta Chabungbam	7100433	Zoology	
16. Laishram Nikita Devi	7100434	Zoology	
17. Ningthoujam Janeshwori Devi	7100435	Zoology	
18. Oinam Kamala Devi	7100436	Zoology	
19. Ashem Alina Devi	7100437	Zoology	
20. Thokchom Anjali Devi	7100438	Zoology	
21. Thoudam Daina Devi	7100439	Zoology	
22. Elangbam Devita Devi	7100440	Zoology	
23. salam Roshni Devi	7100441	Zoology	
24. Sadokpam Roshni Devi	7100442	Zoology	
25. Kh. Anjita Chanu	7100443	Zoology	
26. Elangbam Sarju Devi	7100444	Zoology	
27. Wangkhem Kabita Devi	7100445	Zoology	Absebt
29. Laishram Lisha Devi	7100447	Zoology	
30. Ranin Chabungbam	7100448	Zoology	
31. Thiyam linthoingambi Devi	7100449	Zoology	
32. Khomdram Riya Devi	7100450	Zoology	
33. Khwairakpam Jinabala devi	7100451	Zoology	
34. Ningthoujam sanjina devi	7100452	Zoology	
35. Rongmei Landimlu	7100453	Zoology	
36. Oinam Rejia Devi	7100454	Zoology	
37. Khwairakpam Bhabhani Devi	7100455	Zoology	
38. Gini Haobijam	7100456	Zoology	
39. X	7100457	Zoology	
40. X	7100458	Zoology	
41. Oinam Geetchandra Singh	7100460	Zoology	
42. Laishram Indrakumar Singh	7100461	Zoology	
43. Nepram Dinesh Meitei	7100462	Zoology	

44. Nepram Hemba Singh	7100463	Zoology	
45. Moirangthem shyamson singh	7100464	Zoology	
46. Kangabam Chitraanjan singh	7100 465	Zoology	
47. Abinchandra Thokchom	7100466	Zoology	
48. Laishram Santosh Singh	7100 468	Zoology	
49. Salam Premchand singh	7100469	Zoology	
50. Thokchom Suraj singh	7100 471	Zoology	
51. Th. Ajoy Singh	7100472	Zoology	
52. Nongdam Sadokpam	7100473	Zoology	
53. X	7100474	Zoology	Absent
54. Priobrata Tongbram	7100 475	Zoology	
55. Kh. Joyshree	7100476	Zoology	