

# Collection of water with Plankton net for observation of plankton.



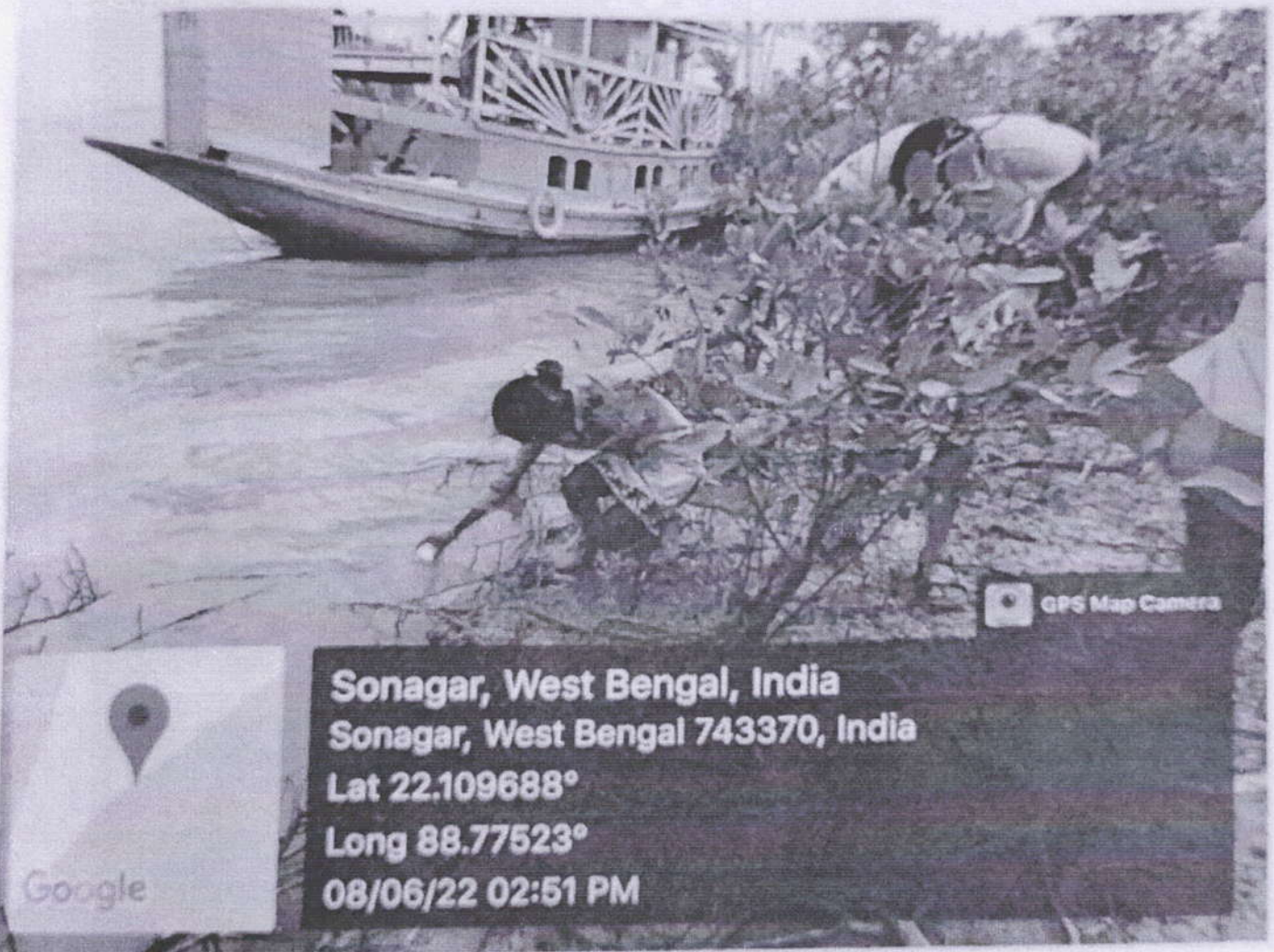
*P. Bera*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

# Water collection for estimation of dissolved Oxygen.



*P. Ghera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

# Kanchrapara College

ESTD : 1972



☎ : STD-033 2585 5159 / 8790  
2876 1587 (Offi.)

website : www.kanchraparacollege.ac.in  
e-mail : info@kpcoll.net  
e-mail : principal@kpcoll.net

P.o. : KANCHRAPARA  
DIST. : NORTH 24 PARGANAS  
WEST BENGAL, PIN-743145

Date :

List of Students for Excursion to Sundarban National Park, 2022-06-07

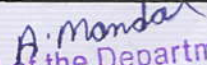
From 08.06.2022 to 10. 06. 2022

Zoology Hons. 2<sup>nd</sup> Semester, 2022 Zoology CC 2022. 4<sup>th</sup> Sem GE

SL NO	Name	Class	Roll No.	Ph. no
1	AHANA GHOSH	2 <sup>nd</sup> Sem. (Hons.)	250	9088032744
2	DEEPA DALAL	2 <sup>nd</sup> Sem. (Hons.)	260	9007567428
3	SAYANIKA BISWAS	2 <sup>nd</sup> Sem. (Hons.)	272	9883936110
4	DEBANJANA DAS	2 <sup>nd</sup> Sem. (Hons.)	259	6289268352
5	SONALI DAS	2 <sup>nd</sup> Sem. (Hons.)	275	6291086204
6	ESHA KUMARI SHAW	2 <sup>nd</sup> Sem. (Hons.)	261	8697712679
7	SUDESHNA MUKHERJEE	2 <sup>nd</sup> Sem. (Hons.)	278	9330355922
8	SUDIPTA MONDAL	2 <sup>nd</sup> Sem. (Hons.)	279	6291086204
9	LIMON MONDAL	2 <sup>nd</sup> Sem. (Hons.)	289	9051415776
10	ASIF MONDAL	2 <sup>nd</sup> Sem. (Hons.)	284	8101338523
11	SAIKAT DAS	2 <sup>nd</sup> Sem. (Hons.)	517	7431892783
12	SINTHIA CHAKRABORTY	2 <sup>nd</sup> Sem. (Hons.)	274	8777873680
13	SOHAN SADHUKHAN	2 <sup>nd</sup> Sem. (Hons.)	297	7432975037
14	JOYITA PAL	2 <sup>nd</sup> Sem. (Hons.)	263	8918661631
15	PRITAM KAR	2 <sup>ND</sup> SEM. (CC)	388	9681619156
16	SWETA DEBNATH	2 <sup>ND</sup> SEM. (CC)	360	9330371780
17	SONALI SUTRADHAR	2 <sup>ND</sup> SEM. (CC)	352	7439600501
18	SUTOPA SAHA	2 <sup>ND</sup> SEM. (CC)	357	8697385380
19	RAJASHREE SENGUPTA	2 <sup>ND</sup> SEM. (CC)	512	9907337882
20	PRITHWIRAJ PODDER	4 <sup>TH</sup> SEM GE	238	6289459181
21	SAMITA SARKAR	4 <sup>TH</sup> SEM GE	227	8906254386
22	SNEHA DAS	4 <sup>TH</sup> SEM GE	509	6289405535
23	SOHAM GHOSH	2 <sup>nd</sup> Sem. (Hons.)	511	9903379828

  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

To  
The Principal  
Kanchrapara College  
Kanchrapara

Date- 29/07/22

Sub- Reimbursement of expenditure incurred from our own fund for educational excursion .

Sir,

With reference to my previous letter I am here by submitting the cost of expenditure that I already paid towards our departmental excursion at Sundarbans from 8<sup>th</sup> to 10<sup>th</sup> June 2022, for two teaching and one non-teaching staff stated below:

Date	Purpose	Rate	Persons	Total
8.6.22	College to Canning	150/-	3	450.00
8-10 <sup>th</sup> June	Entire tour including food & boarding, Entry fees, guide charges, etc	Rs.3500/-	3	10500.00
10.6.22	Canning to back	150/-	3	450.00

eleven thousand four hundred only).

Total Rs.11400/- (rupees)

I am requesting you to pay the above said amount as early as possible.

Thanking you,

Sincerely yours

Anuradha Mandal  
(Anuradha Mandal)  
Department of Zoology  
Kanchrapara College

Dr  
29/07/22

IQAC  
Kanchrapara College  
Kanchrapara, 24 Pgs.(N)

Granted Rs. 11,400/-  
A. Mandal  
29/7/22

Enclosure :-

1) Expenditure Bill  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



A. Mandal  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs

Kanchrapara College  
Department of Zoology  
Educational Excursion Year 2022-2023

**Notice**

**Kanchrapara College**

It is notified for all concerned that an excursion to Kulia Fish Farm, Kalyani has been arranged for the students of Zoology 5th Semester (Hons) and 5th Semester (CC) on 12/12/2022 as per mentioned in their syllabus.

Students are requested to contact with concerned teacher and do the needful.

Sd/-

Anuradha Mandal

*[Signature]*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

*A. Mandal*

Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



## What is excursion

The main objective of conducting an Educational Excursion and field trip for students is to reinforce experiential and contextual learning. Further, the school organizes planned visits to various places to enrich the students and to take learning beyond the four walls of the classroom. Field trips are a way of enhancing classroom learning by making real world connections. Travel expands your horizons and school life cannot be complete without the fun of educational tours and excursions. These trips are tailor made to facilitate the students to know and understand the real, multicultural world. A host of activities are undertaken as a part of trips which act as a catalyst to think out of the box and broaden the outlook. The school discreetly organizes educational trips to strategically and historically important places and facilitates for students to reach out for information beyond the textbooks. The trips give students the opportunity to observe a particular environment that enables first-hand experience of what they are learning. In addition, students achieve a higher level of critical thinking when they evaluate their own learning compared with what they get exposed to, and they are able to modify their knowledge based on their personal experiences. Field trips also offer students and teachers the opportunity to interact outside of the classroom, thus enhancing their bonding with each other and improving their social and life skills.

## Purpose of excursion

- (1) They provide direct source of knowledge and acquaint the student with first hand information.
- (2) They provide an opportunity to the student for development of his aesthetic sense.
- (3) By such excursion students become interested in the exploration of their environment.
- (4) They help to develop in students a love for nature and to acquaint them with the real happiness in the outside world.



*Principa*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



## Introduction

Man is always inquisitive for silk products. SILK- The Queen of Textiles, spells luxury, elegance, class and comfort. Mankind has always loved this shimmering fiber of unparalleled grandeur from the moment Chinese Empress Shilling Ti discovered it in her tea cup. It withstood many a daunting challenges from other natural and artificial fibers and yet, remained the undisputed Queen of Textile since centuries. Exquisite qualities like the natural sheen, inherent affinity for dyes and vibrant colors, high absorbance, light weight, resilience and excellent drape etc. have made silk, the irresistible and inevitable companion of the eve, all over the world.

## What is Silk?

Silk is a natural protein fiber, some forms of which can be woven into textiles. The protein fiber of silk is composed mainly of fibroin and is produced by certain insect larvae to form cocoons. The best-known silk is obtained from the cocoons of the larvae of the mulberry silkworm *Bombyx mori* reared in captivity (sericulture). The shimmering appearance of silk is due to the triangular prism-like structure of the silk fibre, which allows silk cloth to refract incoming light at different angles, thus producing different colors.

Silk is produced by several insects; but, generally, only the silk of moth caterpillars has been used for textile manufacturing. There has been some research into other types of silk, which differ at the molecular level. Silk is mainly produced by the larvae of insects undergoing complete metamorphosis.

## Where do we find Silk?

Geographically, Asia is the main producer of silk in the world and produces over 95% of the total global output. Though there are over 40 countries on the world map of silk, bulk of it is produced in China and India, followed by Japan, Brazil and Korea. China is the leading supplier of silk to the world. India is the second largest producer of silk and also the largest consumer of silk in the world. It has a strong tradition and culture bound domestic market of silk. In India, mulberry silk is produced mainly in the states of Karnataka, Andhra Pradesh, Tamil Nadu, Jammu & Kashmir and West Bengal, while the non-mulberry silks are produced in Jharkhand, Chhattisgarh, Orissa and north eastern state.

*B. Bose*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs (N)

## Types of Silk:

There are five major types of silk of commercial importance, obtained from different species of silk worms which in turn feed on a number of food plants. These are:

- 1) Mulberry
- 2) Non Mulberry
  - a) Tropical tasar & Oak tasar
  - b) Muga
  - c) Eri

## Sericulture:

Sericulture, or silk farming, is the cultivation of silkworms to produce silk. Although there are several commercial species of silkworms, *Bombyx mori* (the caterpillar of the domestic silkworm) is the most widely used and intensively studied silkworm. Silk was believed to have first been produced in China as early as the Neolithic Period. Sericulture has become an important cottage industry in countries such as Brazil, China, France, India, Italy, Japan, Korea and Russia. Today China and India are the two main producers, with more than 60% of the world's annual production.

## Our aim and Objective:

We the students of B.SC. Bio general, Kanchrapara college heard a soft notice that our teachers will lead the entire 5<sup>th</sup> semester to CENTRAL SERICULTURE RESEARCH AND TRAINING INSTITUTE, BERHAMPORE, WEST BENGAL. We are excited to know that soon our theoretical knowledge will be transformed into something real life experience. Before we started our journey we noted some point about rules and regulations and which things we can do while in the field and things can't do while in the field.

## Our Team:



*P. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Parganas



*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



Sl. No.	Name
1.	Supriyo Ghosh
2.	Anay Mondal
3.	Subhankar Dutta
4.	Monojit Paul
5.	Debarghya Debnath
6.	Debjit Banerjee
7.	Dipagree Saha
8.	Kumari Preeti Meena
9.	Sneha Mukherjee
10.	Sayani Sarkar
11.	Dipa Sarkar
12.	Dipa Some
13.	Ankita Sarkar
14.	Swajan Biswas
15.	Shreya Paul
16.	Kankana Biswas
17.	Rohit Paul
18.	Shou...

*P. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Parganas



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

19. Shrinjoy Sengupta
20. Suraj Biswas
21. Nitu Das
22. Ayon Mistri
23. Chandan Dhali
24. Arthita Biswas
25. Chandrima Singh

List of Teaching staff

- 1) Anuradha Mandal
- 2) Saiti Paul

List of Non-teaching staff

- 1) Debashish Aich

*P. Bera*

Principal  
Kanchrapara College  
Kanchrapara, 24 Parganas



A. Mandal  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



To  
The Principal  
Kanchrapara College,  
Kanchrapara

Date: 06/01/23

Subject: Reimbursement of expenditure incurred from our own fund for educational excursion to Berhampore "Central Sericulture Research and Training Institute" on 07/12/2022.

Sir

With reference to the subject mentioned above I am requesting you to release the fund toward the expenditure incurred from our own for educational excursion to Berhampore "Central Sericulture Research and Training Institute", dated 7th December 2022. The details of the expenditure are stated below.

Sl.no.	Purpose	Amount
1	Train fare for 2 teachers and 1 non-teaching staff @280/-	Rs.840.00
2.	Amount paid to CSRTI	Rs.1000.00
3.	Refreshment for 3 persons	Rs.500.00
	<b>Total expenditure</b>	<b>Rs.2340.00</b>

I am requesting you to pay the above said amount as early as possible.

Thanking you,

Sincerely yours

*A. Mandal*  
06/11/23  
(Anuradha Mandal)  
Department of Zoology  
Kanchrapara College

To  
Accountant  
Please take necessary  
action for payment of Rs.2340.00  
*A. Mandal*  
19/01/23

*A. Mandal*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (W.B.)



*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

Kanchrapara College  
Department of Zoology  
Kanchrapara, North 24 Parganas

Zoological Excursion to Fresh Water Fisheries Research & Training Centre Kulia, Kalyani during the academic session Semester-V(CC)

Declaration by the students

I Sri/Smt Sneha Mukherjee a student of Sem V, Zoology Hons/ Programme course (2022) Roll No 377 do hereby declare that I shall abide by the rules/ regulation and instruction as said forth by the principal and executed by the teachers accompanying us and guiding our field trip.

Sneha Mukherjee  
Full signature of student

Declaration by Guardian

I endorse the above declaration given my word,

Name: Goutam Mukherjee

Signature with date: Goutam Mukherjee 11/12/22

Address: 4/275 Katalaganj, P.O. Bedipukuram, Nadia, PIN-741250

Contact no.: 9874137853

Appropriate action will be taken against the students for violating rules and instruction for excursion.

Kanchrapara College  
Department of Zoology  
Kanchrapara, North 24 Parganas

Zoological Excursion to Fresh Water Fisheries Research & Training Centre Kulia, Kalyani during the academic session 2022 Semester- V (CC)

Declaration by the students

I Sri/Smt Saswati Das a student of Sem V, Zoology Hons/ Programme course (2022) Roll No 311 do hereby declare that I shall abide by the rules/ regulation and instruction as said forth by the principal and executed by the teachers accompanying us and guiding our field trip.

Saswati Das  
Full signature of student

Declaration by Guardian

I endorse the above declaration given my word,

Name: Sibu Das

Signature with date: Sibu Das 12-12-22

Address: 341, Millannagar Masjid Bati Road, Kanchrapara Pin-743145

Contact no.: 9331731490

Appropriate action will be taken against the students for violating rules and instruction for excursion.

P. Das  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



A. Mandal  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

To  
The Principal  
Kanchrapara College  
Kanchrapara

Date:07/01/23

Sub- Reimbursement of expenditure incurred from our own fund for educational excursion .

Sir

With reference to the subject mentioned above I am requesting you to release the fund toward the expenditure incurred from our own for educational excursion to Fresh Water Fisheries Research & Training Centre, Kulia, Kalyani, dated 12<sup>th</sup> December,2022. The details of the expenditure are stated below.

Sl.no.	Purpose	Amount
1	Total fare for 3 teachers and 50 students @70/-	Rs.3710.00
3.	Refreshment for 3 teachers and 50 students @ 10/-	Rs.530.00
	<b>Total expenditure</b>	<b>Rs.4240.00</b>

I am requesting you to pay the above said amount as early as possible.

Thanking you,

Sincerely yours

*A. Mandal*  
07/1/23  
(Anuradha Mandal)  
Department of Zoology  
Kanchrapara College

*A. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*To  
Accountant  
Please take necessary action  
for payment of Rs. 4240.00  
A. Bera  
19/01/23*

*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

- 1) Aesop Barai. - 491
- 2) Animesh Ghosh. - 324
- 3) Tirtharup Dey. - 488
- 4) Rudra Naskar. - 333
- 5) Sayani Nandi. - 313
- 6) Priyanka Samanta. - 305
- 7) Prodip Kr Roy. - 331
- 8) Moubarri Mondal. - 297
- 9) Tanushree Datta. - 323
- 10) Krishna Ganguly. - 292
- 11) Koyel Ghosh. - 489
- 12) Rajita Dey. - 306
- 13) Debika Adhikary. - 288
- 14) Bipasha Sarkar. - 286
- 15) Madhurima Debnath. - 293
- 16) Sayak Adhikary. - 334
- 17) Soumik Adhikary. - 338
- 18) Deep Majumder. - 326

- 19) Krishna Kamal Patra. - 329
- 20) Subarna Saha. - 520
- 21) Raktim Kuroi. - 332
- 22) Saswati Das. - 311
- 23) Shreya Majumder. - 317
- 24) Soumyadeep Bhanja.

*P. Mondal*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

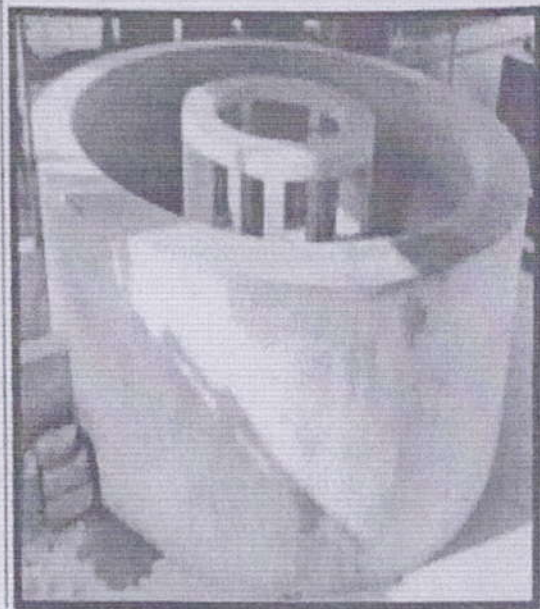
3) Kalyani Station to Kulin Fish Farm - 201

Name	Sl. Ser. No.	Roll
① Sneha Mukherjee	→	377
② Dipa Some	→	350
③ Anay Mondal	→	387
④ Swaj Biswas	→	421
⑤ Supriya Ghosh	→	420
⑥ Akash Shaw	→	522
⑦ Dipasree Saha	→	351
⑧ Kankana Biswas	→	521
⑨ Chandan Dhali	→	523
⑩ Anikita Biswas	→	343
⑪ Nitu Das	→	360
⑫ Chandrima Singh	→	347
⑬ Shrimjoy Sengupta	→	484
⑭ Swajan Biswas	→	422
⑮ Dipa Sarkar	→	349
⑯ Deberghya Debnath	→	394
⑰ Sayani Sarkar	→	371
⑱ Debjit Banerjee	→	524
⑲ Shreya Paul	→	373
⑳ Sneha Das	→	375
㉑ Kumari preeti meena	→	355
㉒ Ayon Mistry	→	393
㉓ Rohit Paul	→	407
㉔ Ankita Sarkar	→	483
㉕ Manojit Paul	→	525
㉖ Arpita Pramanik	→	342
㉗ Subhankar Dutta	→	417

*P. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24

Kanchrapara College  
Estd. - 1972  
(W.B.)  
Kanchrapara

A. Mondal  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



*A. Saha*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

*Different types of eco-hatcheries*

*A. Mondal*

Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas





## Ornamental Fish Culture

Ornamental fishes can be defined as attractive colorful fishes of peaceful nature that are kept as pets in confined spaces of an aquarium or a garden pool with the purpose of enjoying their beauty for fun and fancy. Ornamental fishes are also called 'live jewels' for their beautiful colors and playful behaviour.

In 1951 India the starts the rearing of goldfish. Ornamental fishes of India are contributing about 1% of the total ornamental fish.

India has great potentials in Ornamental fish production due to the presence of rich biodiversity of species, favourable climatic conditions and availability of cheap labour. Kerala, Tamil Nadu and West Bengal mainly practice ornamental fish farming in India.



Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)





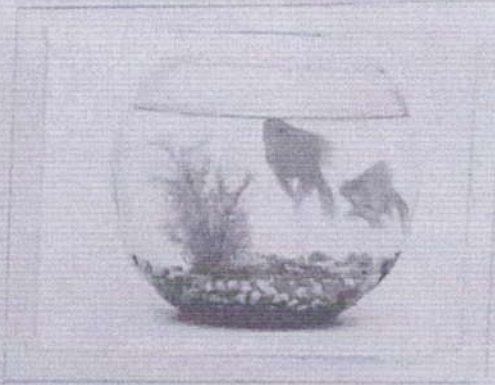
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs

na's

# Experimental Fish Culture



Aqua Culture



Aquarium fish

*Pradisa*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mondal*  
Head of the Department  
Department of ...  
Kanchrapara, North 24 Pgs (N)

Course Code	Course Title	Total credits (FM)	Total no. of Lectures	Total no. of hours
ZOOL-G-DSE-P-01	Fish and Fisheries Lab	2 (20)	30	60

### List of Practical

#### List of Practicals

1. Morphometric and meristic characters of fishes.
2. Study of *Petromyzon*, *Myxine*, *Pristis*, *Chimaera*, *Exocoetus*, *Hippocampus*, *Gambusia*, *Labeo*, *Heteropneustes*, *Anabas*, *Echeneis*, exotic carps.
3. Study of different types of scales (through permanent slides/ photographs).
4. Study of crafts and gears used in Fisheries (Pictures/models). Characters.
5. Water quality criteria for Aquaculture: Assessment of pH, DO, free CO<sub>2</sub>, productivity, alkalinity, hardness, chloride (by titration/refractometer).
6. Study of air breathing organs in *Channa*, *Heteropneustes*, *Anabas* and *Clarias*. Drawing with characters.
7. Project Report on a visit to any fish farm/ pisciculture unit/Zebrafish rearing Lab.

Lab notebook with labelled diagrams, methods and results.

1, 3, 4, 6: Identification with diagram, systematic position (where applicable) and diagnostic characters.

*P. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

Course Code	Course Title	Total credits (FM)	Total no. of Lectures	Total no. of hours
ZOOL-H-DSE-P-01	Fish and Fisheries Lab	2 (20)	30	60

### List of Practicals

1. Morphometric and meristic characters of fishes.
2. Study of *Petromyzon*, *Myxine*, *Pristis*, *Chimaera*, *Exocoetus*, *Hippocampus*, *Gambusia*, *Labeo*, *Heteropneustes*, *Anabas*, *Echeneis*, exotic carps – Identification with characters.
3. Study of different types of scales (through permanent slides/ photographs).
4. Study of crafts and gears used in Fisheries (Pictures/models). Characters.
5. Water quality criteria for Aquaculture: Assessment of pH, DO, free CO<sub>2</sub>, productivity, alkalinity, hardness, chloride (by titration/refractometer).
6. Study of air breathing organs in *Channa*, *Heteropneustes*, *Anabas* and *Clarias*. Drawing with characters.
7. Project Report on a visit to any fish farm/ pisciculture unit/Zebrafish rearing Lab.

Lab notebook with labelled diagrams, methods and results.

A. Mandal  
 Head of the Department  
 Department of Zoology  
 Kanchrapara College  
 Kanchrapara, North 24 Parganas

*P. Bera*  
 Principal  
 Kanchrapara College  
 Kanchrapara, 24 Pgs (N)



**Kanchrapara College**  
**Department Of Zoology**  
**Educational Excursion Year 2022-2023**

**Notice**

**Kanchrapara College**


It is notified for all concerned that an excursion to Kajiranga National Park and Hoollongapar Gibbon sanctuary, [Assam has been arranged for the students of Zoology 2<sup>nd</sup> Semester (Hons) on and from 31/03/2023 to 05/04 2023 as per mentioned in their syllabus. Students are requested to contact with concerned teacher and do the needful.

Sd/-

Anuradha Mandal

  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N),



  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

Course Code	Course Title	Total credits (FM)	Total no. of Lectures	Total no. of hours
ZOOL-H-CC-P-03	Perspectives in Ecology Lab	2 (20)	30	60

### List of Practicals

1. Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided
2. Determination of population parameters (dominance, diversity, frequency) in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index and Importance Value Index for the same community.
3. Study of an aquatic ecosystem: Phytoplankton and zooplankton, determination of pH, and Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO<sub>2</sub>
4. Report on a visit to National Park/Biodiversity Park/Wild life sanctuary

1, 2: Theoretical, dry-lab.

4: Major excursion.

*A. Mandal*  
 Head of the Department  
 Department of Zoology  
 Kanchrapara College  
 Kanchrapara, North 24 Parganas

*R. Bera*  
 Principal  
 Kanchrapara College  
 Kanchrapara, 24 Pgs (N)



# KALYANI UNIVERSITY

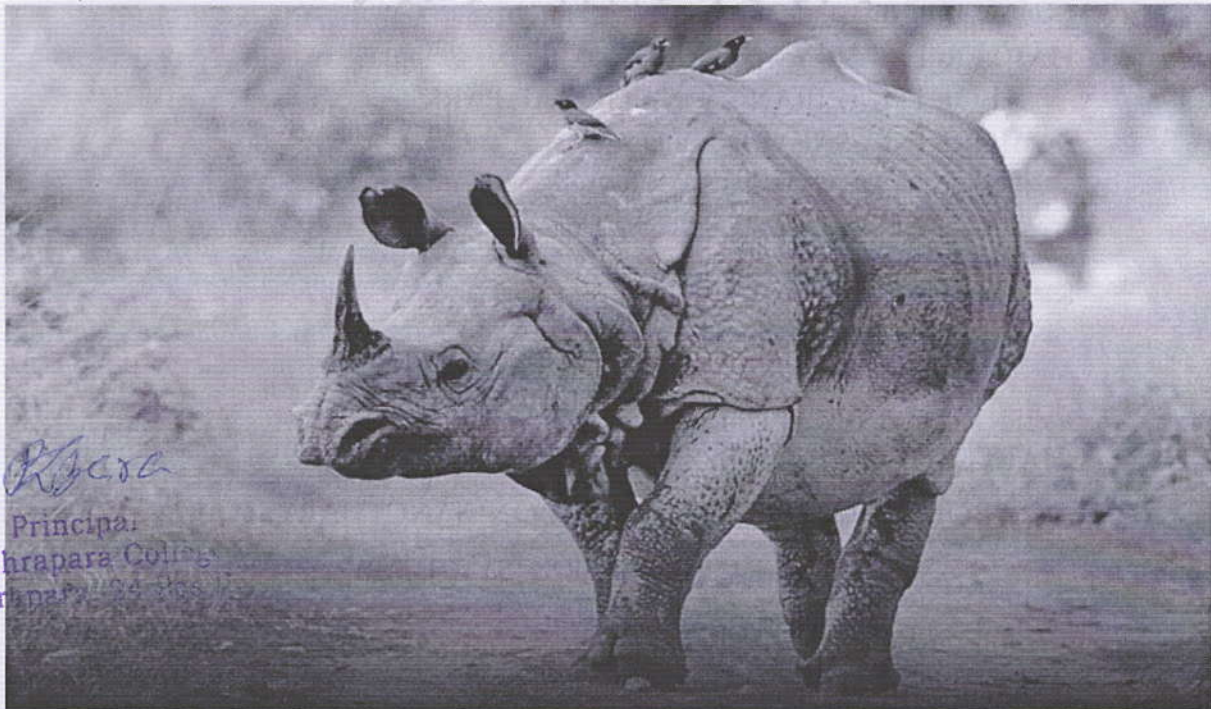
B.SC HONOURS 2<sup>ND</sup> SEMESTER EXAMINATION 2023

## ZOOLOGY HONOURS

PAPER:- CC-P-03

EDUCATIONAL EXCURSION- 2023

[KAZIRANGA NATIONAL PARK & HOLLONGAPARA GIBBON SANCTUARY]



NAME:- RUDRANIL BANERJEE

REGISTRATION NUMBER: 015850

ROLL NUMBER: 2112120-2215845


SESSION: 2022-2023



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

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Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N),




*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



## : OUR TEAM :

<u>SUPERVISOR</u>	<ol style="list-style-type: none"><li>1. <u>DR.SARBANI DUTTA ROY</u></li><li>2. <u>DR. SAILI PAUL</u></li><li>3. <u>MRS.RITUPARNA PAUL</u></li><li>4. <u>MS.PUJA BHATTACHARYYA</u></li></ol>
<u>STUDENTS</u>	<ol style="list-style-type: none"><li>1. <u>ANGANA ADHIKARY</u></li><li>2. <u>AYANTIKA SAMANTA</u></li><li>3. <u>AHTASHAM MANZOOR</u></li><li>4. <u>ARPAN KUMAR GHOSH</u></li><li>5. <u>DEBMALYA SARKAR</u></li><li>6. <u>HIRAK SHEEL</u></li><li>7. <u>JHIM GHOSH</u></li><li>8. <u>JOYDEEP KARMAKAR</u></li><li>9. <u>RUDRANIL BANERJEE</u></li><li>10. <u>SUBHAGATA MONDAL</u></li><li>11. <u>SAGARIKA BAIDYA</u></li><li>12. <u>SAIKAT BISWAS</u></li><li>13. <u>TRISHA GHOSH</u></li></ol>

  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, 24 Parga



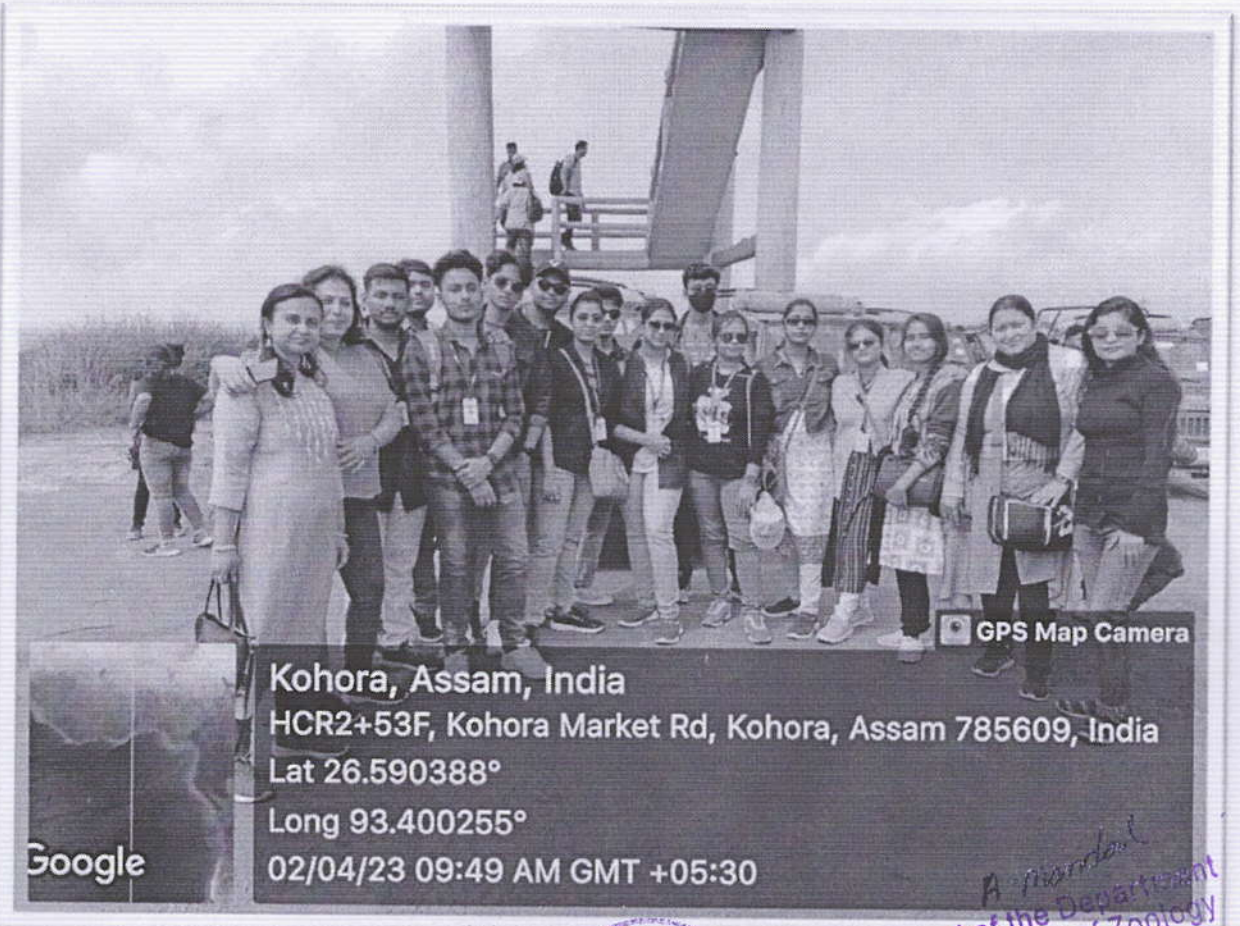
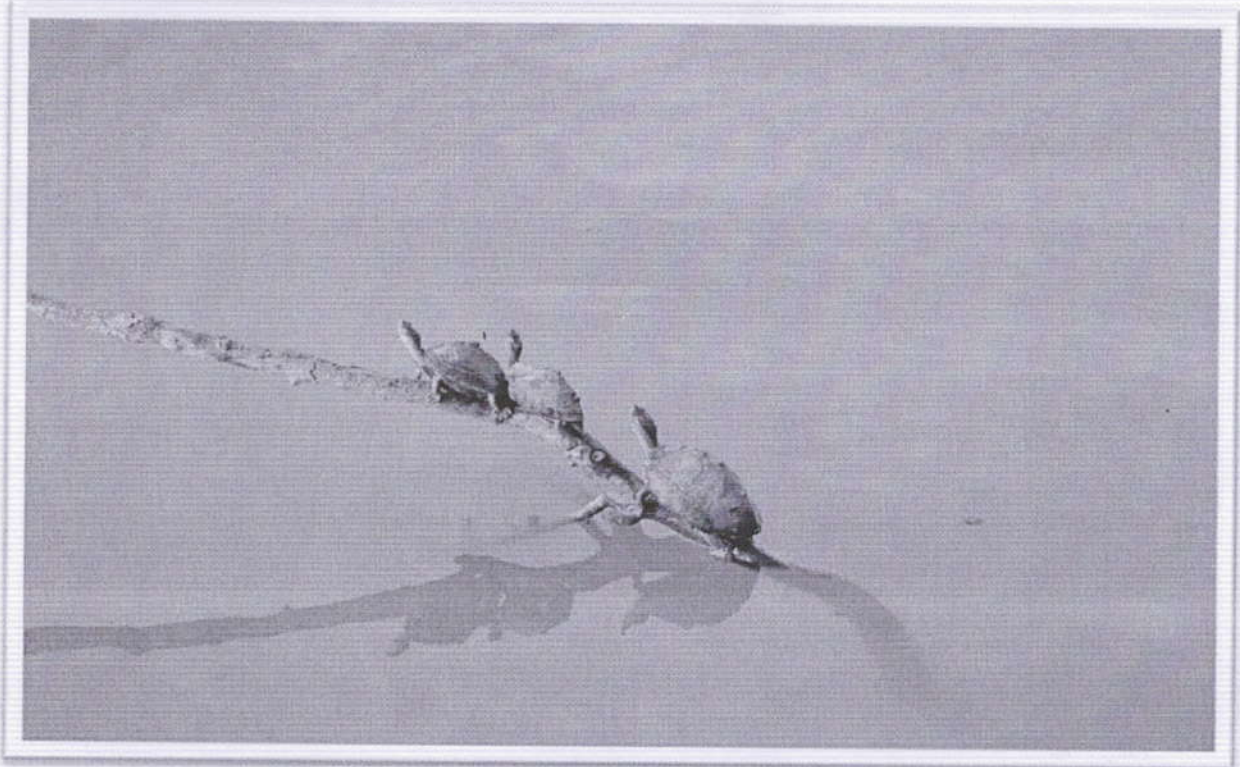
Dedrupar Grant, Assam, India  
 Melong, Nakachari, Dedrupar Grant, Assam 785635, India  
 Lat 26.679732°  
 Long 94.356965°  
 03/04/23 01:27 PM GMT +05:30



*P. Bera*  
 Principal  
 Kanchrapara College  
 Kanchrapara, 24 Pgs (N)



*A. Mondal*  
 Head of the Department  
 Department of Zoology  
 Kanchrapara College  
 Kanchrapara, North 24 Parganas



*R. Jera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

**Kanchrapara College**  
**Department of Zoology**  
**Educational Excursion Year 2018-2019**

**1. Excursion notice**

**Notice**  
**Kanchrapara College**

It is notified for all concerned that an excursion to Manas National Park, Assam has been arranged for the students of Zoology, 2<sup>nd</sup> year (Hons.) on and from 13/01/2019 to 18/01/2019 as per mentioned in their syllabus.  
Students are requested to contact with concerned teacher and do the needful.

Sd/-  
Biplab Kr. Mukhopadhyay

**2. Syllabus**

13

Course Code	Course Title	Total credits (FM)	Total no. of Lectures	Total no. of hours
ZOOL-H-CC-P-03	Perspectives in Ecology Lab	2 (20)	30	60

**List of Practicals**

1. Study of life tables and plotting of survivorship curves of different types from the hypothetical real data provided
2. Determination of population parameters (dominance, diversity, frequency) in a natural hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index and Importance Value Index for the same community.
3. Study of an aquatic ecosystem: Phytoplankton and zooplankton, determination of pH, and Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO<sub>2</sub>
4. Report on a visit to National Park Biodiversity Park Wild life sanctuary

1, 2: Theoretical, dry-lab  
4: Major excursion.

*[Signature]*  
Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas


### 3. Excursion Report

#### Preface

I am presenting a field work report on Manas National Park. In this field work I have tried to give all the important things about my field work. This report contains about the excursion and what we learn from Manas National Park. I have given information in this project by consulting books and useful websites. I have tried my best to avoid mistakes. If there is minute mistake please avoid it.

  
Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)



  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

# Acknowledgement

We sincerely and honest acknowledge that the invaluable help rendered by the following persons without whose support we could not have done the report and educationally enriching tour. We express our greatest gratitude and best regards to **Ms. Rituparna Paul, Ms. Puja Bhattacharyya** for being the bricks and pillars in all matters related to excursion Mr. Dibyendu Roy for his cooperation. We have to mention excellent spirit of cooperation extended by **Dr. Biplab Kumar Mukhopadhyay** head of the department Zoology Kanchrapara College towards fulfillment of our requirements for the excursion.

SI	
II	
III	
IV	
V	
VI	
VII	
VIII	
IX	
X	
XI	
XII	

  
Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas.

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*P. Bera*  
Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (W.B.)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

## Introduction:-

Manas National Park or Manas Wildlife Sanctuary is a national park, UNESCO Natural World Heritage site, a Project Tiger reserve, an elephant reserve and a biosphere reserve in Assam, India. Located in the Himalayan foothills, it is contiguous with the Royal Manas National Park<sup>[2]</sup> in Bhutan. The park is known for its rare and endangered endemic wildlife such as the Assam roofed turtle, hispid hare, golden langur and pygmy hog. Manas is famous for its population of the wild water buffalo.

  
Principal,  
Kanchrapara College  
P.O.- Kanchrapara, DisL- 24 Pgs. (N)



*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



## Aims and Objectives:-

- Aims and Objectives of Manas National Park Maozin is to conserve Manas Tiger Reserve with special preference to its core zone and to restore the past glory.
- To promote Manas National Park as an international tourist spot.
- To establish Manas National Park Conservation & Ecotourism Model
- to establish and develop Eco-tourism and Community Tourism based on Conservation of Manas.
- To revive and preserve the most ideal traditions and cultures of Bodo tribe.
- To motivate and create awareness towards Conservation of Nature and Environment among the people
- To bring about a Socio-Economic and Educational development in villages on the fring of Manas National Park through Eco-tourism and Community Tourism.
- To promote Manas Ecotourism Concept across the globe.
- To develop Network and Co-operation among the like minded NGOs across the globe.
- To rehabilitate the ex-poachers and consume them in conservation of habitat, wildlife and harmony.

  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist.- 24 Pgs. (M)



  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North-24 Parganas

## OUR PROGRAMME OF MANAS NATIONAL PARK

Date of Journey :- 13<sup>th</sup> January 2019  
Train No & Name :- 12345 Saraighat Express  
Departure Time & Place :- 15:50hrs Howrah Station

### Details Tour Programme

13/01/19: - Start from Howrah Station at 15.50hrs by 12345 Saraighat Express for New Bongaigaon Station.

14/01/19: - Reaching New Bongaigaon Station at 06.28hrs. Start from New Bongaigaon Station at 07.00hrs by Bus for Manas National Park. Reaching Manas National Park at 10.00hrs and transfer at Forest Rest House and Dormitories. Afternoon Jungle safari by Zypsy. Night stay at same Rest House and Dormitories.

15/01/19: - Morning and Evening coverage Manas National Park Safari by Zypsy. Night stay at same Forest Rest House and Dormitories.

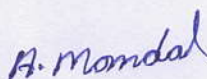
16/01/19: - Morning coverage Royal Manas National Park (Bhutan) by Boat. Evening free and individual Activities. Night stay at same Forest Rest House and Dormitories.

17/01/19: - Start from Manas National Park at 07.00hrs by Bus for Barpeta Road. Reaching Barpeta Road at 09.30hrs. Start Barpeta Road Station at 10.15hrs by 15960 Kamrup Express for Howrah.

18/01/19: - Reaching Howrah Station at 06:00hrs.

  
Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

## Our Team-

- **Teachers-** Dr. Biplab Kumar Mukhopadhyay

Ms. Ritupama Paul

Ms. Puja Bhattacharyya

- **Non-Teaching Staff-** Dibyendu Roy

- **Students-**

Disha Ghosh	Enakshi Ghosh
Nabanita Dey	Payeshee Sarkar
Poulumi Karmakar	Pritha Dey
Puja Sarkar	Avik Biswas
Sayani Mallick	Pratya Biswas
Injamul Shekh	Ruhul Amin Mondal
Akash Das	Sougata Kar
Samrat Das	Sourav Pramanick
Sumit Kr Poddar	Ankita Bose
Supriya Saha	Sayoni Dam
Sunita Hembram	Swagata Ghosh
Arpita Roy Chowdhury	Anusree Roy Chowdhury
Akash Biswas	Paramita Das
Sudipta Bhattacharjee	Bandana Debnath
Debjani Das	Ayesha Rahaman



*R. Bera*  
Principal,  
Kanchrapara College  
P.O. Kanchrapara, Dist. - 24 Pgs. (W)

*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

4. Pictures



*P. Bera*

Principal,  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)



*A. Mandal*

Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



5. Gurdian consent

*Prerna*  
Principal  
Kanchrapara College  
P.O.-Kanchrapara, Dist.-24 Pgs. (W)



*A-Momdal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

Kanchrapara College  
Department of Zoology  
Kanchrapara, North 24 pgs

Zoological excursion to Manas National park during the Academic Session 2018-19.  
The journey will start from Howrah station on 13<sup>th</sup> January 2019 and terminate on 18<sup>th</sup> January 2019 at Bandel station

Declaration by the student

I, Avik Biswas a student of Part-II Zoology Hons., Roll No. 625, do hereby declare that I shall abide by the rules/regulation and instructions as set forth by the Teacher in Charge and executed by the Teachers accompanying us and guiding our excursion.  
I shall pay the amount of Rs. 7400/- (Rupees seven thousand and four hundred only) for the above said excursion.

Avik Biswas  
(full signature of the student)

Declaration by the Guardian

I endorse the above declaration given by my ward.

Name: Sadhana Biswas  
Signature with date: [Signature] 7/12/2018  
Address: Palta, Ambagan Link Road, P.O. Bengal Enamel, Dist. 24 P.G.S. (N)  
Contact number: 9477919409

Appropriate action will be taken against the students violating instruction for excursion.

Kanchrapara College  
Department of Zoology  
Kanchrapara, North 24 pgs

Zoological excursion to Manas National park during the Academic Session 2018-19.  
The journey will start from Howrah station on 13<sup>th</sup> January 2019 and terminate on 18<sup>th</sup> January 2019 at Bandel station

Declaration by the student

I, Bandana Debnath a student of Part-II Zoology Hons., Roll No. B26, do hereby declare that I shall abide by the rules/regulation and instructions as set forth by the Teacher-in-Charge and executed by the Teachers accompanying us and guiding our excursion.  
I shall pay the amount of Rs. 7400/- (Rupees seven thousand and four hundred only) for the above said excursion.

(full signature of the student)

Bandana Debnath

Declaration by the Guardian

I endorse the above declaration given by my ward.

Name: Balaram Debnath  
Signature with date: [Signature] 19/9/18  
Address: Halisahar, East Kabisraja para  
Contact number: 9883108428

Appropriate action will be taken against the students violating instruction for excursion.

6. Student list

[Signature]  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs.

  
A. Mondal  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

To,  
The Teacher-in-Charge,  
Kanchrapara College,  
Kanchrapara

Subj: Application regarding zoological excursion of B.Sc. Part - II, Zoology Honours

Sir,

We the students of 2<sup>nd</sup> year HONOURS, Department of Zoology, of your college want to inform you that we are organising an educational tour as according to our syllabus and chosen to go to MANAS NATIONAL PARK, ASSAM. We are seeking permission from you to commence our educational tour from 13<sup>th</sup> January, 2019 to 17<sup>th</sup> January, 2019.

We shall be highly obliged if you permit us for the educational tour as soon as possible.

Thanking You,

Date: 15/09/2018  
Place: Kanchrapara

Yours' Faithfully,  
Students of 2<sup>nd</sup> Year Honours,  
Department of Zoology,  
Kanchrapara College, Kanchrapara

- 1) Sougata Kar.
- 2) Sucipta Bhattacharjee
- 3) Payesnee Sarker
- 4) Akash Biswas
- 5) Sumit Kumar Podder.
- 6) Priyanka Das
- 7) Sriyagata Ghosh
- 8) Pratikha Biswas
- 9) Surita Hombam.
- 10) Anusree Roy chowdhury
- 11) Debjani Das
- 12) Arpita Ray chowdhury
- 13) Dishka Ghosh
- 14) Supriya Saha
- 15) Pujya Sarker
- 16) Nakarita Dey

Permitted  
15.9.18  
Teacher-in-Charge  
Kanchrapara College

P.T.O

*P. Bera*  
Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (W)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

- 17) Sayani Mallick
- 18) Paulami Karmakar
- 19) Paramita Das
- 20) Enakshi Ghosh
- 21) Ayesha Rahman.
- 22) Sayoni Sami
- 23) Rubul Amin Mondal
- 24) Akash Das
- 25) Bandana Debnath
- 26) Injermul Shekh.
- 27) Sourav Paramanik

*P. Beda*  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, Dist. - 24 Parganas



# Kanchrapara College

ESTD - 1972



Z : STD-033 2585 5153 / 5750  
2878 1887 (Crt.)  
website : www.kpcoll.net  
e-mail : info@kpcoll.net  
e-mail : principal@kpcoll.net

P.O. : KANCHRAPARA  
DIST. : NORTH 24 PARGANAS  
WEST BENGAL, PIN-743145

From :

Ref. No. :

Date :

### To whom it may concern

This is to certify that a team of 33 students (B.Sc, 2<sup>nd</sup> year Honours and general) guided by Dr. Biplab Kumar Mukhopadhyay and Rituparna Paul along with two Non-teaching staff members going to visit Manas National Park, Assam from 13.01.2019 to 18.01.2019 as an educational tour.

So, I would like to request the competent Authority to cooperate and help the team if & when require.



*Pranab Kr. Bera* 10/1/19

(Pranab Kr. Bera)

Principal,

Kanchrapara College.

KANCHRAPARA COLLEGE  
P.O. - Kanchrapara, Dist. - 24 Pgs(N)

## 7. Receipt copy



*Pranab Kr. Bera*  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)

*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parg

To  
The Principal  
Kanchrapara College  
Kanchrapara, North 24 pgs.

Dated, 24<sup>th</sup> January '19

Sub: Reimburse the amount expenses towards the educational tour.

Sir,

With the reference to the subject captioned above I am requesting you to sanction the amount of money mentioned below that we already spend for the excursion of 2<sup>nd</sup> year Hons. and General students 2018-19.

Total expenditure for 4 staff ( three teaching and one non-teaching) is Rs. 30,200.00 (Rupees thirty thousand two hundred only).

Expenditure from Howrah to Manas National park and back	Rs. 7300 X 4 = 29200.00
From College/residence to Howrah on 13.01.19	Rs. 150 X 4 = 600.00
From Bandel to residence on 18.01.19	Rs. 100 X 4 = 400.00

Requesting you to take appropriate steps in this regard  
Thanking you,  
Yours faithfully

*Biplab Kr. Mukhopadhyay*  
(Biplab Kr. Mukhopadhyay)

Received Rs.  
cheque no. 133863  
dt 04/02/19 of Axis  
Bank, Kanchrapara  
of Rs. 30200/-

*P. Bera*  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



# Taraknath Travels

Cont. Regd. No. - 17090F  
Phone - 98301 2052 9503 1118  
Mobile - 98330 15019  
7786792620

Office - Copinath Sanku Super Market Flat No. 101  
Shop No - F-140, Seidrapur, Hooghly  
Email - manasishapatra10@gmail.com  
taraknath18@gmail.com  
manasishapatra@gmail.com  
Website - www.taraknathtravels.com



Date - 24/01/19

To:  
The principal  
Kanchrapara college  
Kanchrapara.

Sub - Bill for zoological educational excursions of Manas National Park dated 13/01/19 to 18/01/19

SL NO	PARTICULARS	AMOUNT (RS)
1	Package cost for 36 heads including 32 students and 3 Professor and 1 teaching staff @ 7300.00	262800.00
2	3 heads cancellation charges 500x3	1500.00
3	Camera charges	600.00
Total Amount		264900.00

Rupees Two Lakh Sixty Four Thousand Nine Hundred Only

Signature

*Manasishapatra*

*A. Bera*  
Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

Kanchrapara College  
Department Of Zoology  
Educational Excursion Year 2021-2022

Notice

Kanchrapara College

It is notified for all concerned that an excursion to Central Sericultural Research & Training Institute (CSRTI), Baharampur, has been arranged for the students of Zoology 4th semester (Hons) on 01/06/2022 as per mentioned in their syllabus.

Students are requested to contact with concerned teacher and do the needful.

Sd/-

Anuradha Mandal



*A. Beeta*  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (W)

*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pargana

Course Code	Course Title	Total credits (FM)	Total no. of Lectures	Total no. of hours
ZOOL-H-SEC- 03	Sericulture	2 (20)	30	30

### Unit 1: Introduction

Types of silkworms, Distribution and Races  
 Exotic and indigenous races  
 Mulberry and non-mulberry Sericulture

### Unit 2: Biology of Silkworm

Life cycle of *Bombyx mori*  
 Structure of silk gland and secretion of silk

### Unit 3: Rearing of Silkworms

Rearing house and rearing appliances  
 Disinfectants: Formalin, bleaching powder  
 Silkworm rearing technology: Early age and Late age rearing  
 Types of mountages.  
 Spinning, harvesting and storage of cocoons

### Unit 4: Pests and Diseases

Pests of silkworm: Uzi fly, dermestid beetles and vertebrates  
 Pathogenesis of silkworm diseases: Protozoan, viral, fungal and bacterial  
 Control and prevention of pests and diseases

### Unit 5: Entrepreneurship in Sericulture

Report on a visit to a sericulture center.

*[Signature]*  
 Principal  
 Kanchrapara College  
 P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



*[Signature]*  
 Head of the Department  
 Department of Zoology  
 Kanchrapara College  
 Kanchrapara, North 24 Parganas

Kanchrapara College  
Department Of Zoology

Kanchrapara College  
Department of Zoology  
Kanchrapara, North 24 Parganas

Zoological field trip to Sericulture institute "Central Sericulture Research and Training Institute, Berhampore" during the academic session 2022 Semester IV

**Declaration by the students**

I Sri/ms Kanika Das a student of Sem IV zoology honours (2022) Roll No 291 do hereby declare that I shall abide by the rules, regulation and instruction as said forth by the principal and executed by the teachers accompanying us and guiding our field trip.

I shall pay amount of Rs. 500 (five hundred only) for the above said excursion and the full amount will be paid in advance which is non-refundable.

Kanika Das  
Full signature of student

Declaration by Guardian

I endorse the above declaration given my word.

Name: Tapash Kumar Das  
Signature with date: Tapash K. Das 30/05/2022  
Address: IND Gobindanagar, Madanpur, Nadia  
Contact no.: 9434244988  
Appropriate action will be taken against the students for violating rules and instruction for excursion.

Kanchrapara College  
Department of Zoology  
Kanchrapara, North 24 Parganas

Zoological field trip to Sericulture institute "Central Sericulture Research and Training Institute, Berhampore" during the academic session 2022 Semester IV

**Declaration by the students**

I Sri/ms Koyel Ghosh a student of Sem IV zoology honours (2022) Roll No 489 do hereby declare that I shall abide by the rules, regulation and instruction as said forth by the principal and executed by the teachers accompanying us and guiding our field trip.

I shall pay amount of Rs. 500 (five hundred only) for the above said excursion and the full amount will be paid in advance which is non-refundable.

Koyel Ghosh  
Full signature of student

Declaration by Guardian

I endorse the above declaration given my word.

Name: Ajoy Kumar Ghosh  
Signature with date: Ajoy Kumar Ghosh 30/5/22  
Address: Vill:-Paschimpara, P.O:- Madanpur, Dist:-Nadia  
Contact no.: 8509441180  
Appropriate action will be taken against the students for violating rules and instruction for excursion.

Principa

Principal  
Kanchrapara College  
Kanchrapara, Dist.-24 Pgs. (N)



A. Mandal  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

Journey will start on 01/06/2022 from ranaghat station at 8:20 am by Hazarduari express and we will be back at Ranaghat station at 5.21 pm by Hazarduari express on the same day(i.e 01/06/2022).

SL	NAME OF THE STUDENT
1	Madhurima Debnath
2	Krishna Gnguly
3	Bipasha Sarkar
4	Moubani mondal
5	Debika Adhikary
6	Rajita Dey
7	Kanika Das
8	Koyel Ghosh
9	Tanushree Dutta
10	Saswati Das
11	Subarna Saha
12	Sayani Nandi
13	Priyanka Samanta
14	Shreya Majumder
15	Aeshop Barai
16	Rudra Naskar
17	Tirtharup Dey
18	Deep Majumder
19	Animesh Ghosh
20	Krishnakamal Patra
21	Sayak Adhikary
22	Sounak adhikary
23	Prodip kumar Roy
24	Raktim Kuri
25	Soumyadip Bhadra

NAME OF TEACHERS:-

- 1) Mrs. Anuradha Mandal 7687046534
- 2) Dr. Sarbani Dutta 9830883166
- 3) Dr. Saili Paul 8240928048
- 4) Miss. Puja Bhattacharya 8335901559

NAME OF NON-TEACHING STAFF:-

- 1) Debashish Aich 6290580577

*Prerna*

Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)



Principal  
Kanchrapara College  
Kanchrapara. 24 Pgs (N)

*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas.

To  
The Principal  
Kanchrapara College  
Kanchrapara

Date: 29/07/22

Sub- Reimbursement of expenditure incurred from our own fund for educational excursion .

Sir

With reference to the subject mentioned above I am requesting you to release the fund toward the expenditure incurred from our own for educational excursion to Berhampore Central sericulture Training & Research Institute, dated 1<sup>st</sup> June 2022. The details of the expenditure are stated below.

Sl.no.	Purpose	Amount
1	Train fare for 4 teachers and 1 non-teaching staff @160/-	Rs.800.00
2.	Amount paid to CSRTI	Rs.1000.00
3.	Refreshment for 5 persons	Rs.500.00
	<b>Total expenditure</b>	<b>Rs.2300.00</b>

I am requesting you to pay the above said amount as early as possible.

Thanking you,

Sincerely yours

*Anuradha Mandal*  
(Anuradha Mandal)  
Department of Zoology  
Kanchrapara College

*[Signature]*  
29/07/22

IQAC  
Kanchrapara College  
Kanchrapara, 24 Pgs.(N)



*Grantee Rs. 2300/-*

*[Signature]*  
29/7/22  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

*[Signature]*  
Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)

*A. Mandal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs. (N)



53

Kanchrapara College  
Department Of Zoology  
Educational Excursion Year 2021-2022

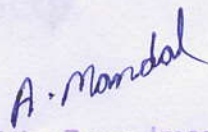
Notice

**Kanchrapara College**

It is notified for all concerned that an excursion to Sunderban has been arranged for the students of Zoology, 2<sup>nd</sup> Semester (Hons.), 2<sup>nd</sup> Semester CC and 4th semester(HGe) on and from 08/06/2022 to 10/06/2022 as per mentioned in their syllabus. Students are requested to contact with concerned teacher and do the needful.

Sd/-  
Anuradha Mandal

  
Principal,  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)

  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs. (N)



Course Code	Course Title	Total credits (EM)	Total no. of Lectures	Total no. of hours
ZOOL-H-CC-P-03	Perspectives in Ecology Lab	2 (20)	30	60

#### List of Practicals

1. Study of life tables and plotting of survivorship curves of different types from the hypothetical/real data provided.
2. Determination of population parameters (dominance, diversity, frequency) in a natural/hypothetical community by quadrat method and calculation of Shannon-Weiner diversity index and Importance Value Index for the same community.
3. Study of an aquatic ecosystem: Phytoplankton and zooplankton, determination of pH, and Dissolved Oxygen content (Winkler's method), Chemical Oxygen Demand and free CO<sub>2</sub>.
4. Report on a visit to National Park/Biodiversity Park/Wild life sanctuary/Marine ecosystem.

1, 2: Theoretical, dry-lab.

4: Major excursion.

*A. Bera*  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

### Reference Books

- Gilbert, S. F. (2010). Developmental Biology, IX Edition, Sinauer Associates, Inc., Publishers, Sunderland, Massachusetts, USA
- Slack JMW, Essential Developmental Biology.
- Kardong, K.V. (2005) Vertebrates' Comparative Anatomy, Function and Evolution. IV Edition. McGraw-Hill Higher Education.
- Kent, G.C. and Carr R.K. (2000). Comparative Anatomy of the Vertebrates. IX Edition. The McGraw-Hill Companies
- Hilderbrand, M and Gaslow G.E. Analysis of Vertebrate Structure, John Wiley and Sons
- Saxena, R.K. & Saxena, S.C. (2008) : Comparative Anatomy of Vertebrates, Viva Books Pvt. Ltd.
- Krebs, C. J. (2001). Ecology. VI Edition. Benjamin Cummings.
- Odum, E.P., (2008). Fundamentals of Ecology. Indian Edition. Brooks/Cole
- Robert Leo Smith Ecology and field biology Harper and Row publisher
- Ecology: Theories & Application (2001). 4<sup>th</sup> Edition by Peter Stilling.
- Ecology by Cain, Bowman & Hacker. 3<sup>rd</sup> edition. Sinauer Associates

Course Code	Course Title	Total credits (FM)	Total no. of Lectures	Total no. of hours
ZOOL-H-GE-P-02	Comparative Anatomy and Developmental Biology of Vertebrates Lab	2 (20)	30	60

### List of Practicals

1. Study of placoid, cycloid and ctenoid scales through permanent slides/photographs
2. Study of disarticulated skeleton of Toad, Pigeon and Guineapig.
3. Demonstration of Carapace and plastron of turtle OR
4. Identification of mammalian skulls: One herbivorous (Guineapig) and one carnivorous (Dog) animal
  - a. Dissection of Tilapia: Circulatory system, Brain, pituitary, urinogenital system.
  - b. Study of whole mounts of developmental stages of chick through permanent slides: 24, 48, 72, and 96 hours of incubation.
5. Study of an aquatic ecosystem: Phytoplankton and zooplankton, determination of pH, and Dissolved Oxygen content (Winkler's method) and free CO<sub>2</sub>.
6. Report on a one-day visit to Sanctuary/Zoo/Sericulture station/Fishery/apiculture station/pond ecosystem/agroecosystem.

Either 3 or 4.

Lab note book, with labelled diagrams and identifications, with reason.

Separate Lab Notebooks for Identification and Ecology.

Separate Field Notebook.

*P. Behera*

Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (H)



*A. Mondal*  
Head of the Department,  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

KALYANI UNIVERSITY  
KANCHRAPARA COLLEGE  
DEPARTMENT OF ZOOLOGY

SUBJECT- ZOOLOGY (2ND SEM)

COLLEGE ROLL NO.-289

REGISTRATION NO.-020914

ROLL NO.-2112120-2118949

YEAR- 2021-2022

*[Signature]*  
Kanchrapara, Dist. - 741010  
P.O.- Kanchrapara, Dist. - 741010



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas

# A PROJECT REPORT ON A VISIT TO SUNDARBAN BIOSPHERE RESERVE



*[Signature]*  
Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)

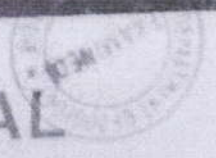
ARBAN

NO PHOTO TAKEN  
BY VIDEO CAMERA

*[Signature]*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs.

2022/6/10 08:44

SUBMITTED BY: LIMON MONDAL



## OUR TEAM

Supervisor	1.Puja Bhattacharjee 2.Sarbani Dutta 3. <i>Debashis Aich</i>
Students	1.Esha kumari Shaw 2.Sonali Das 3.Ahana Ghosh 4.Debanjana Das 5.Sudipta Mondal 6.Limon Mondal 7.Sohan Sadhukhan 8.Asif Mondal 9.Sudeshna Mukherjee 10.Sayanika Biswas 11.Deepa Dalal 12.Joita paul 13.Sinthia Chakraborty 14.Saikat Das 15 .Soham Ghosh

*P. Bera*

Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



*A. Mondal*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs. (N)

## -:Excursion Day 1:-

Date:-08/06/2022

On this very date we started our journey from Gothkhali ghat near about 10:00 a.m. & started our lonch (M.B.DELTA QUEEN) safari after eating our breakfast.



On this day we visited Gosaba Block. From there we went to our destinations in the midst of gosaba market place - Hamilton Bungalow (build in 1903) and Beacon's Bungalow , where Rabindranath Tagore had visited in 1932 to see the development initiatives in the area by Daniel Hamilton, a businessman-cum-social worker.

*[Signature]*  
Principal,  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)



*[Signature]*  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Pgs. (N)



After eating our lunch we landed in a mangrove forest area of Sundarban region for our project works. Where we collect water sample for our practical (Dissolved oxygen content and Planktons). We marked a particular area of that place and determined the population parameters in that community by Quadrate method.



Then we descend at Pakhiralaya ghat for the night stay at O2 Resort at 6:22 p.m. Thus 1<sup>st</sup> day of our tour was ended .



Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)



A. Mondal  
Head of the Department  
Department of Zoology  
Kanchrapara College  
Kanchrapara, North 24 Parganas



## Report on Excursion

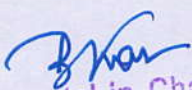
1. Name of the Department: Environmental Science
2. Period of Excursion /Field Work /Project Work: 13/01/2020 to 17/01/2020
3. No. of students participants: 35
4. Place(s) visited: Lataguri – Gorumara, Jalpaiguri, W.B.
5. Title of the Field Work/ Project Work: Ecological field visit forest ecosystem of Lataguri Mouza (Jalpaiguri District) W.B.
6. Paper Title: ENVS-H-CC-05-P: Ecological Field Visit forest ecosystem


Lataguri is located outside the Gorumara National Park on National Highway No. 31. Permits for entering Gorumara and Chapramari Wildlife Sanctuary are given from Lataguri. We also visited the Neora Valley National Park in Kalimpong district, West Bengal, India. The village also contains a "Nature Interpretation Center", which gives information about the flora and fauna of the area.

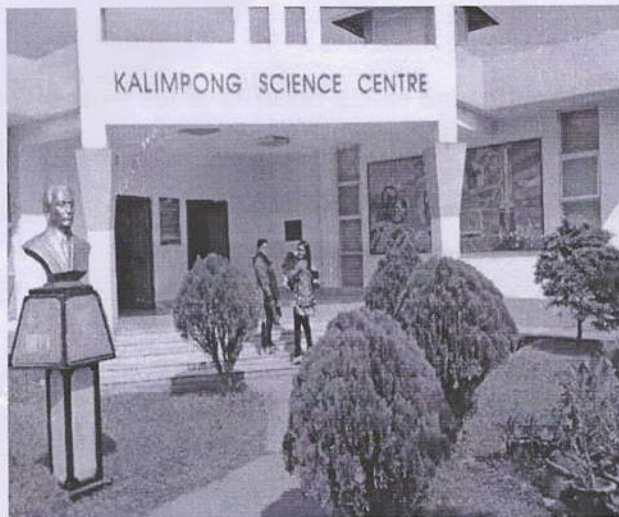
Conclusions / Suggestion: Inequalities in welfare, health, and safety benefits of tea workers have been found among different categories of tea companies in the study.

Comments / Suggestions: The type of excursion / Educational tour is very helpful for the students to absorb the actual learning through practical experience



  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas

  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*R. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*B. Khan*  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas

o/c

Expenditure of Part I, Part-II and Part-III (Hons) Students' Excursion:

Department of Environmental Science

➤ Field study to the Garumara National Park and Neora Valley National Park, West Bengal  
(13<sup>th</sup> to 18<sup>th</sup> January, 2020)

Sl. No.	Details	Expenditure (₹)
1	Train fare of 35 students @ ₹ 680.00	23,800.00
2	Train fare of 3 faculty members & 1 staff @ ₹ 680.00	2,720.00
3	Package cost (including food, lodging & car) for 35 students @ 5900.00	2,06,500.00
4	Package cost (including food, lodging & car) for 3 faculty members + 1 staff @ 5900.00	23,600.00
5	Miscellaneous (Medicines, Package drinking water bottles, Cakes, Biscuits, etc)	734.00
Total		2,57,354.00

Total contribution by 3 faculty members and 1 staff = ₹ (2720.00 + 23,600.00) = ₹ 26,320.00

All original bills, Railway Tickets, Permits are attached herewith....

*Piyal Bhattacharya*  
2 Feb' 20  
(Piyal Bhattacharya)

*Received*  
*07/02/20*



*[Signature]*  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas

*[Signature]*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

Sl. No.

01 ✓

ETERNAL

Mob 96098 10946  
70766 67255

# ARANNYA BHAWAN

Email: arannyabhawanresort@gmail.com  
Website: www.arannyabhawanresort.com



ARANNYA BHAWAN RESORT, KANCHRAPARA, NORTH 24 PARGANAS, WEST BENGAL

Name: Dept. of Environmental Science, Kanchrapara College  
Address: 24 Parganas (N) Date: 18.01.2020

Sl. No.	Particulars	Rate	Amount	
			Rs.	P
	Arrival date: 14.01.2020 Departure date: 17.01.2020 No. of guests = 39 Feeding & lodging @ 5900.00 for 3 days for 39 guests		2,30,100	—
	Date: 17.01.2020			
	Receiver's Signature	TOTAL	2,30,100	—



(Rupees in words) Two lakh thirty thousands and one hundred only. ARANNYA BHAWAN  
Signature: [Signature] 18/01/2020  
8250293639

*[Signature]*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*[Signature]*  
Departmental-In-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas



**शुभ यात्रा HAPPY JOURNEY** Helpline No. 139

PNR/Arrival/Departure No.139

टिकट नं. TICKET NO. **F 26583226**

पी.एन.आर. नं./PNR NO. TRAIN NO. DATE R.M. ADULT CHILD

SAC:996421 GSTIN-IR:19AAAGM0239C1Z6 STATE OF SUPPLY:19 WEST BENGAL

कमि/क्लास 673-6978631 13141 13-01-2020 616 6 0 तक/से 2040

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**शुभ यात्रा HAPPY JOURNEY** Helpline No. 138

PNR/Arrival/Departure No.139

टिकट नं. TICKET NO. **F 26583227**

पी.एन.आर. नं./PNR NO. TRAIN NO. DATE R.M. ADULT CHILD

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JOURNEY CLM RESERVATION TICKET PPS-CAL

शय्या न्यू माल जं. सियालदह कान्चनकन्या एक्सप्रेस

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पूर्व रेलवे

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas



शुभ यात्रा HAPPY JOURNEY

Helpline No. 138

PNR/Arrival/Departure No.139

TICKET NO. 26583218

पी.एन.आर. नं./PNR NO.

TRAIN NO. DATE K.M. ADULT CHILD

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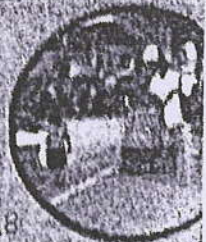
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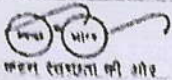
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रेलवे स्टेशन में प्रवेश करने पर सफाई का ध्यान रखें।  
प्लेटफॉर्म पर खाने-पीने की वस्तुएं लाना/लिटिंग  
Spitting is strictly prohibited in Train Platforms / Railway Premises.  
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पूर्व रेलवे EASTERN RAILWAY



शुभ यात्रा HAPPY JOURNEY

Helpline No. 138

PNR/Arrival/Departure No.139

TICKET NO. 26583219

पी.एन.आर. नं./PNR NO.

TRAIN NO. DATE K.M. ADULT CHILD

SAC:996421 GSTIN-IR:19AAAGM0239C126 STATE OF SUPPLY:19 WEST BENGAL

श्रेणी/CLASS

653-6978060

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तक/से /26583219

JOURNEY CUM RESERVATION TICKET

FRS-CAL

शया न्यू माल जं.

सिधालदर

RESERVATION एचएसएस

COACH SEAT/BERTH GENDER AGE T.AUTHORITY CONC. R.FEE S.CH SE.CH VOUCH.Rs. T.CASH Rs.

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Rs. TWO ZERO FOUR ZERO ONLY  
VALID WITH ORIGINAL ID

KANCHANKANYA EX BRD NEW MAL JN

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रेलवे स्टेशन में प्रवेश करने पर सफाई का ध्यान रखें।  
प्लेटफॉर्म पर खाने-पीने की वस्तुएं लाना/लिटिंग  
Spitting is strictly prohibited in Train Platforms / Railway Premises.  
Penalties for affecting cleanliness and hygiene in Railway Premises.

पूर्व रेलवे EASTERN RAILWAY

*Principa*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*Bhan*  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas



शुभ यात्रा HAPPY JOURNEY

Helpline No. 138

PNR/Arrival/Departure No.139

TICKET NO. 26583222

पी.एन.आर. नं./PNR NO. TRAIN NO. DATE K.M. ADULT CHILD

SAC:976A21 GSTIN-IR:19AA4370239C1Z0 STATE OF SUPPLY:19 WEST BENGAL

श्रेणी/CLASS 653-6978024 13141 13-01-2020 616 6 0

JOURNEY CUM RESERVATION TICKET

FRS-CAL

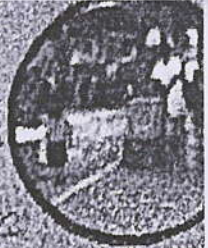
शय्या सियालदह न्यू मैनापुड़ी कान्चनकुल्या एक्सप्रेस  
कोच सीट/बर्थ SEALDAH नया गाजा और सिंगरिया रियासत आ.शु. स.शु. सु.अ. पाउचर र कु. नकद र  
COACH SEAT/BERTH GENDER AGE T.AUTHORITY CONC R.FEE S.CH SF.CH VOUCH Rs. T.CASH Rs.

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S5	60	LB	M	18
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S5	62	UB	F	19

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Rs. TWO ZERO FOUR ZERO ONLY  
VALID WITH ORIGINAL ID

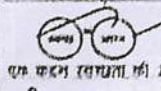
TESTA TOUSA EXP BRD SEALDAH SCH DEP 13-01 13:40 ARR 14-01 04:22  
799 15-11-2019 14:56:50 IFA 1 VIA IN -BDC -AZ -BFK -MLDT-NTP

www.er.Indianrailways.gov.in



रेलवे स्टेशन में तापी धुंकाया या रेल परिसर अधिकांश माडी में बांधणी नहीं बननी है। रेलवे परिसर में स्वच्छता को धमिल करने भर जुनूनि लगेना। Spitting is strictly prohibited in Train Platforms/Railway Premises. Penalties for activity affecting cleanliness and hygiene in Railway Premise

पूर्व रेलवे EASTERN RAILWAY



शुभ यात्रा HAPPY JOURNEY

Helpline No. 138

PNR/Arrival/Departure No.139

TICKET NO. 26583223

पी.एन.आर. नं./PNR NO. TRAIN NO. DATE K.M. ADULT CHILD

SAC:976A21 GSTIN-IR:19AA4370239C1Z0 STATE OF SUPPLY:19 WEST BENGAL

श्रेणी/CLASS 653-6978387 13150 17-01-2020 622 6 0

JOURNEY CUM RESERVATION TICKET

FRS-CAL

शय्या न्यू माल जं. सियालदह कान्चनकुल्या एक्सप्रेस  
कोच सीट/बर्थ NEW MAL JN SEALDAH नया गाजा और सिंगरिया रियासत आ.शु. स.शु. सु.अ. पाउचर र कु. नकद र  
COACH SEAT/BERTH GENDER AGE T.AUTHORITY CONC R.FEE S.CH SF.CH VOUCH Rs. T.CASH Rs.

S1	34	MB	M	19
S1	35	UB	M	19
S1	37	MB	M	18
S1	38	UB	M	18
S1	40	SJ	M	18
S1	8	SJ	F	19

120 2040  
Rs. TWO ZERO FOUR ZERO ONLY  
VALID WITH ORIGINAL ID

KANCHANKANYA EX BRD NEW MAL JN SCH DEP 17-01 18:47 ARR 18-01 08:20  
926 15-11-2019 14:57:19 IFA 1 VIA SOUT-NTP -MLDT-RPH -RWN -DKAE

www.er.Indianrailways.gov.in



रेलवे स्टेशन में तापी धुंकाया या रेल परिसर अधिकांश माडी में बांधणी नहीं बननी है। रेलवे परिसर में स्वच्छता को धमिल करने भर जुनूनि लगेना। Spitting is strictly prohibited in Train Platforms/Railway Premises. Penalties for activity affecting cleanliness and hygiene in Railway Premise

पूर्व रेलवे EASTERN RAILWAY

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas



06 December, 2019

To  
The Principal  
Kanchrapara College

Subject: Request to permit excursion for the Environmental  
Science (Hons) students

Respected Sir,

As per the Kalyani University per prescribed  
CBCS syllabus for Environmental Science (Hons), the students  
are required to perform an excursion. You are thus  
requested to give permission for an excursion to  
Garumara National Park and surrounding natural spots  
(Jalpaiguri district, West Bengal) from 13-17 January, 2020.

In this connection, you are requested for  
necessary financial assistance to conduct the excursion  
smoothly.

With regards,

  
G.D. 19

<PIYAL BHATTACHARYA>

Granted  
ABera 06/12/19



Principal

Kanchrapara College

North 24 Parganas (N)



Principal  
Kanchrapara College  
Belur Math, 24 Parganas (N)

  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas

# Kanchrapara College

☎ : STD-033 2585 5159 / 879,  
2876 1587 (Offi.)  
website : www.kpcoll.net  
e-mail : info@kpcoll.net  
e-mail : principal@kpcoll.net

ESTD : 1972



P.o. : KANCHRAPARA  
DIST. : NORTH 24 PARGANAS  
WEST BENGAL, PIN-743145

From :

Ref. No. :

Date :

## Educational Excursion 2019-2020 Department of Environmental Science

Sl. No.	Name	Parent Mob No.	Sl. No.	Name	Parent Mob No.
1	Tarun Kanti Dutta	9007743703	21	Prodipti Saha	8777233266
2	Biswajit Kar	9732071044	22	Puja Barman	9883781972
3	Pallabi Das	6290338839	23	Swagata Sarkar	6291972272
4	Saswati Ghosh	8927517629	24	Debadrati Biswas	9433757186
5	Agni Shankar Saha	8145925067	25	Soumen Banerjee	9038904697
6	Sayandip Roy	8900177060	26	Shromona Dey	7365840207
7	Susmita Sarkar	8617573649	27	Adity Sarkar	7595865348
8	Susmita Bhowmik	9748659169	28	Payel Das	8017555839
9	Arunima Saha	9153181209	29	Sneha Bhowmik	9432334162
10	Barnali Sikdar	9083814024	30	Nitika Sharma	8443987699
11	Sanchari Mondal	8001203273	31	Deyasine Sinha Roy	9153699971
12	Satavisha Banik	9875353051	32	Rashmoni Biswas	9230380731
13	Avishikta Aich	9903332235	33	Suparna nandy	7699365559
14	Rudrani Bhattacharya	7890562977	34	Arundhuti Pradhan	8101482505
15	Soumidipa Chatterjee	9433390744	35	Biswadeep Pramanik	9333669586
16	Rima Biswas	7797042732	36	Arijit Saha	8637379115
17	Anushka Das	8637543080	37	Yeasin Mondol	8768287025
18	Archismita Biswas	8902036618	38	Parvej Mondal	8509684969
19	Parna Paul	9775090103	39	Rebanta Raha	8910271763
20	Debashuriti Banerjee	9007824101			

Timeline: 13<sup>th</sup>-17<sup>th</sup> January, 2020

Excursion spot: Garumara National Park and adjoining natural spots of Jalpaiguri district (West Bengal)

Tour operator: Mr. Bakul Roy, Aranya Bhavan, Madarihut, Alipurduar,  
(Mobile:9609810946/8250293639)

*Pranab Kr. Bera* 4/1/2020  
(Dr. Pranab Kr. Bera)  
Principal

Kanchrapara College  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*Pranab Kr. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

*Pranab Kr. Bera*  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas

**Students' Excursion 2019-2020 for students of  
Department of Environmental Science**

Stay at: Hotel Banante, Lataguri and Hotel Sayan  
Contact person: Mr. Bakul Roy (Mob: 96098 10946)

Date	Program
13 Jan	Assemble within 12:00 noon in front of the main RPF booth at Sealdah station Departure by 13141 Teesta Torsa Express at 1:40 pm
14 Jan	Arrival at New Mal Junction station at 4:22 am; Transfer to Hotel
14-17 Jan	<ul style="list-style-type: none"> <li>➤ Garumara National Park Forest safari: study of forest ecosystem</li> <li>➤ Visit to Neora Valley National Park</li> <li>➤ Visit to Chhagey waterfall: collection and identification of rock samples</li> <li>➤ Visit to Rishop: Herbarium plant collection and Quadrante study</li> <li>➤ Socioeconomical study at Lava (if possible)</li> </ul>
17 Jan	After breakfast transfer to New Mal Junction station Departure by 13150 Kanchankanya Express at 6:47 pm
18 Jan	Arrival at Sealdah at 8:20 am

Package Cost: Rs. 5900.00 per head

Train fare: Rs. 680.00 per head

PACKAGE COST INCLUDES	PACKAGE COST EXCLUDES
<ul style="list-style-type: none"> <li>➤ All sightseeing by car/ bus as per tour program mentioned above</li> <li>➤ Breakfast, Lunch, Snacks &amp; Dinner</li> <li>➤ Service of a Tour Manager</li> </ul>	<ul style="list-style-type: none"> <li>➤ All personal expenses</li> <li>➤ Entry fee of camera</li> <li>➤ Anything which is not included in the "PACKAGE COST INCLUDES" BOX</li> </ul>

*B. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



*Pran*  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas

# Kanchrapara College

ESTD : 1972



☎ : STD-033 2585 5159 / 8790  
2876 1587 (Offi.)  
website : www.kpcoll.net  
e-mail : info@kpcoll.net  
e-mail : principal@kpcoll.net

P.o. : KANCHRAPARA  
DIST. : NORTH 24 PARGANAS  
WEST BENGAL, PIN-743145

No. :

Date :

Date: 4<sup>th</sup> January, 2020

## To whom it may concern

A batch of 35 students of 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> year B.Sc. in Environmental Science (Honours) is going to make a visit to the Gorumara National Park, Neora Valley National Park, Changey Waterfall, Rishop canopy hanging bridge, lava monastery and Gorubathan adjoining sites from 13.01.2020 to 18.01.2020, as compulsory part of their University prescribed syllabus. The students will be guided by Dr. Biswajit Kar, Ms. Pallabi Das, Ms. Saswati Ghosh and Mr. Tarun Kanti Dutta, Department of Environmental Science, Kanchrapara College, West Bengal.

It would be highly appreciated if they are extended assistance either moral or material in case of emergency situation, if any during their journey and stay at North Bengal.

(Dr. Pranab Kumar Bera)

Principal

Kanchrapara College

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24-Parganas

## Report on Excursion

1. Name of the Department: Environmental Science

2. Period of Excursion/Field Work/Project Work: 13.04.2022 to 14/04/2022

3. No. of students participated: 32

4. Place of Excursion: Lalgaun - Grammura, Jalpaiguri, W.B.

5. Title of the Field Work/Project Work: To inspect field sites (water ecosystem of Lalgaun, Grammura, Jalpaiguri District, W.B.)

6. Objectives of the Field Visit: To study the field sites.

The site is located inside the Grammura National Park on National Highway No. 31, between the crossing Grammura and Chhannara Wildlife Sanctuary and Grammura Wildlife Sanctuary. The site is situated in the Newa Valley National Park, a Kalichowk Wildlife Sanctuary, Grammura Wildlife Sanctuary, Nature Interpretation Centre, which gives information about the

UG-ENVS-H-CC-P -05

CREDITS: 2


### Practical:

- Qualitative and quantitative analysis of planktons of aquatic systems.
- Determination of species, dominance and frequency using quadrat/ plot method.
- Determination of dissolved oxygen, free carbon dioxide and primary productivity of water samples collected from aquatic ecosystems.

Ecological field visit: pond/forest/river/wetland or other ecosystem.




  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)


  
Departmental-in-Charge  
Department of Environmental Science  
Kanchrapara College  
Kanchrapara, North 24 Parganas

**B.A. /B.Sc. (Honours) Course in Geography**  
**(Revised Syllabus)**  
(W.e.f. from the Academic Session 2016-2017)

**Part- III (Honours)**  
**(Full Marks: 400)**

Paper	Group	Marks	Full Marks
Paper VII: Nature of Geography, Political and Economic Geography	Group - A: Nature of Geography	30	80
	Group - B: Political Geography	20	
	Group - C: Economic Geography	30	
Paper VIII: Contemporary Issues in Geography, Remote Sensing and GIS	Group - A: Contemporary Issues in Geography	30	80
	Group -B: Remote Sensing and GIS	50	
Paper IX: Regional Geography	-	-	80
Paper X: Practical	-	70+10	80
Paper XI: Practical	-	70+10	80

  
HOD/Departmental In-Charge  
Department of Geography  
Kanchrapara College  
North 24- Pgs, Pin-743145

  
Principal  
Kanchrapara College  
Kanchrapara. 24 Pgs (N)

**er-X : (Practical)****80 Marks**

1. Computer applications in Geography: 20 Marks
  - (a) Fundamental concepts on Computer hardware and software.
  - (b) Preparation of bar, pie and line graph.
  - (c) Scatter diagram and trend line.
2. Survey: Traversing by Prismatic Compass and Dumpy level with one change point (profile drawing). 20 Marks
3. Preparation of thematic maps using (a) point symbol: dot map (b) Line Symbol: Traffic flow map, (c) Area Symbol: Choropleth map, (d) Volume Symbol: Spheres. 15 Marks
4. Weather map: Pre-monsoon, Monsoon, Post-monsoon. 15 Marks
5. Laboratory Note Book & viva voce. (5+5)=10 Marks.

**er-XI : (Practical)****80 Marks**

1. Projection: Cylindrical Equal Area, Mercator's, Polar Zenithal Stereographic, Simple Conical Projection with one standard parallel and Bonne's. 20 Marks
2. Topographical map interpretation (1:50,000) with reference to relationship between physical and cultural features using Transect chart and Scatter diagram. 5 Marks
3. Morphometric Analysis of Drainage Basin from Topographical Map (1:50,000) 15 Marks
  - (i) Relative Relief (SD)
  - (ii) Drainage Frequency
  - (iii) Stream Ordering: Horton and Strahler
  - (iv) Slope analysis by Wentworth's method.
4. Megascopic identification of Rocks & minerals 10 Marks

Rocks: Granite, Basalt, Dolerite, Shale, Sandstone, Limestone, Conglomerate, Laterites, Slate, Phyllite, Schist, Marble, Quartzine, Gneiss  
Minerals: Talc, Gypsum, Calcite, Mica, Feldspar, Quartz, Chalcopryrite, Hematite, Magnetite, Bauxite, Galena.

**(10+10)=20 Marks****5. Field Work and Field Report**

Select an area (rural/urban with cadastral /municipal map) and identify major landuse features and related problems. The report should be :

- (i) hand written- within 2500 words.
- (ii) Maps and diagrams not exceeding 20 pages; photographs not exceeding 5 pages.
- (iii) No dry letter to be permitted.

The location of field must be within 100 km from institution concerned.

**(5+5)=10 Marks****6. Laboratory Note Book & viva voce.**

*15/06/24*  
HOD/Departmental In-Charge  
Department of Geography  
Kanchrapara College  
North 24- Pgs, Pin-743145

11-9

*P. Beda*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)


GEO/H/CC/P/11: (Practical): Research Methodology and Field Work

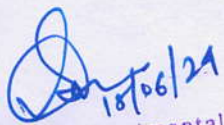
2 Credits

1. Each student will prepare an individual report based on primary data collected from field survey and secondary data collected from different sources for either a rural area (mouza) or an urban area (municipal ward) based on cadastral or municipal maps to study specific problems.
2. The duration of the field work shall not exceed 10 days
3. The report should be hand written in English on A4 size paper in candidate's own words within 5,000 to 8,000 words excluding tables, diagrams, maps, photographs, references and appendices
4. A copy of the bound report on A4 size paper, duly signed by the concerned teacher, should be submitted
  - i. Maps and Diagrams not exceeding 20 pages
  - ii. Photographs not exceeding 5 pages
  - iii. No dry letter to be permitted

**Reference Books:**

- Monkhouse, F.J. and Williamson, R.H. (1963): Maps and Diagrams: Their Compilation and Construction, Methuen, London
- Saha, P.K. and Basu, P. (2009): Advanced Practical Geography, Books and Allied (P) Ltd., Kolkata
- Sarkar, A. (2008): Practical Geography: A Systematic Approach, Orient Black Swan, Kolkata
- Narasinha Murthy, R.L. (2014) Research Methodology in Geography, Concept, New Delhi
- Yeats, M., (1974): An Introduction to Quantitative Analysis in Human Geography.

  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

  
HOD/Departmental In-Charge  
Department of Geography  
Kanchrapara College  
North 24- Pgs, Pin-743145





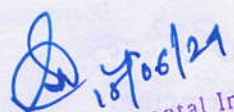
**COURSE STRUCTURE UNDER CHOICE BASED CREDIT SYSTEM FOR B.A./B.Sc.  
HONOURS COURSE IN GEOGRAPHY**

**Semester-wise course structure**

(6 Credit: 75 Marks)

SEMESTER-IV				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/08	Core	REGIONAL PLANNING AND DEVELOPMENT	75L+15T	6
GEO/H/CC/T/09	Core	ECONOMIC GEOGRAPHY	75L+15T	6
GEO/H/CC/T/10	Core	ENVIRONMENTAL GEOGRAPHY	60T	4
GEO/H/CC/P/10			60P	2
GEO/H/GE/T/04/A or GEO/H/GE/T/04/B	GE	INDUSTRIAL GEOGRAPHY <b>OR</b> SUSTAINABLE DEVELOPMENT	75L+15T	6
GEO/H/SEC/P/02/A or GEO/H/SEC/P/02/B	SEC	ADVANCE SPATIAL STATISTICAL TECHNIQUES <b>OR</b> FIELD WORK	60P	2
<b>Total</b>		<b>5 courses</b>	-	<b>26</b>
SEMESTER-V				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/11	Core	RESEARCH METHODOLOGY AND FIELD WORK	60T	4
GEO/H/CC/P/11			60P	2
GEO/H/CC/T/12	Core	REMOTE SENSING AND GIS	60T	4
GEO/H/CC/P/12			60P	2
GEO/H/DSE/T/01/A or GEO/H/DSE/T/01/B	DSE	URBAN GEOGRAPHY <b>OR</b> CULTURAL AND SETTLEMENT GEOGRAPHY	75L+15T	6x2=12
GEO/H/DSE/T/02/A or GEO/H/DSE/T/02/B	DSE	POPULATION GEOGRAPHY <b>OR</b> SOCIAL GEOGRAPHY	75L+15T	
<b>Total</b>		<b>4 courses</b>	-	<b>24</b>
SEMESTER-VI				
Course Code	Course Nature	Course Title	Course wise Class (L+T+P)	Credit
GEO/H/CC/T/13	Core	EVOLUTION OF GEOGRAPHICAL THOUGHTS	75L+15T	6
GEO/H/CC/T/14	Core	DISASTER MANAGEMENT	60T	4
GEO/H/CC/P/14			60P	2
GEO/H/DSE/T/03/A or GEO/H/DSE/T/03/B	DSE	FLUVIAL GEOMORPHOLOGY <b>OR</b> RESOURCE GEOGRAPHY	75L+15T	6x2=12
GEO/H/DSE/T/04/A or GEO/H/DSE/T/04/B	DSE	SOIL AND BIO GEOGRAPHY <b>OR</b> AGRICULTURAL GEOGRAPHY	75L+15T	
<b>Total</b>		<b>4 courses</b>	-	<b>24</b>
<b>Total (All semesters)</b>		<b>26 courses</b>	-	<b>140</b>

  
**Principal**  
**Kanchrapara College**  
**Kanchrapara, 24 Pgs (N)**

  
**HOD/Departmental In-Charge**  
**Department of Geography**  
**Kanchrapara College**  
**North 24- Pgs, Pin-743145**

# The Nature Lovers Club & Holidays

66, S. P. Mukherjee Road, Near Bhawanipur P.S., Kolkata - 700 026  
Ph.: 033 2454 1858, 033 2419 1858, Mail: sales@nlcht.com, nlcht@yahoo.in

Event Management | Incentive Tour | Adventure Tour | Package Tour | Distributors' Meet | Hotel Booking | Air Ticket

Bill No.

## Tax Invoice

Date: 21<sup>st</sup> November 2018

Name of The Guest : Prof. A K Halder

Address : Dept of Geography, Kanchrapara College

Contact no : 9903335202

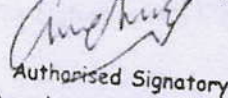
Particulars	Rate Rs.	Amount (Rs)
<u>Dooars Package Tour Charges, From 13 11 2018 To 20 11 2018:-</u>		
Package Cost for 28 Students Pax	@7,500.00	2,10,000.00
Package Cost for 03 Teachers & Non teaching	@ 7500.00	22,500.00
<b>Total</b>		<b>2,32,500.00</b>

Rupees:- Two lac thirty two thousand five hundred Only



Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

Ganesh Choudhury



Authorised Signatory  
For The Nature Lovers Club & Holidays



Beautiful Bengal  
West Bengal Tourism

Recognized by Department of Tourism  
Government of West Bengal



Travel Association of Bengal

ble India

Ministry of Tourism  
Government of India

Received  
Ch. no. 133786  
Dt. 11/12/18  
Rs. 22500/-  
Ananda Kumar Halder  
20/12/18

The Principal

Kanchrapara College

Kanchrapara, 24 pgs (N)

Subject: Application to receive the grant for educational tour in the Geography Department.

Respected Sir,

I am glad to inform you that we, Sri Ananda Kumar Halder (HOD), Mrs Sanjali Das and Sri sankar Saha (non teaching staff) along with twenty eight (28) students have completed our educational tour successfully on and from 11/11/2018 to 20/11/2018 at Dooars.

In this regard I am requesting you to please reimburse our actual expenses of ₹ 22,500/- (₹ 7500 X 3) (Twenty two thousand five hundred only) for this tour.

Thanking you.

Yours faithfully

Ananda Kumar Halder  
(HOD, Dept. of Geography)

Date: 30/11/2018

Accepted  
Principal  
12-12-18

RSR  
4/12/18

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

# The Nature Lovers Club & Holidays

66, S. P. Mukherjee Road, Near Bhawanipur P.S., Kolkata - 700 026  
Ph.: 033 2454 1858, 033 2419 1858, Mail: sales@nlcht.com, nlcht@yahoo.in

Event Management | Incentive Tour | Adventure Tour | Package Tour | Distributors' Meet | Hotel Booking | Air Ticket

## Tax Invoice

Date: 16<sup>th</sup> November 2019

Bill No.

Name :	Dept of Geography, Kanchrapara College	
Contact Person	Prof. Ananda Kumar Halder	
Address	Kanchrapara, 24pgs (N)	
Contact no	8777049536	
Particulars	Rate Rs.	Amount (Rs)
<u>Pelling &amp; Gangtok Excursion Charges, From 4.11.2019 To 11.11.2019:-</u>		
Includes:- Train fare, Train foods, Accommodation, All meals & All transportation		
Package Cost for 28 Students	@ 8700.00	243600.00
Package Cost for 04 Teachers & Non Teaching staffs	@8700.00	34800.00
Total		2,78,400.00
Rupees:- Two Lac Seventy Eight Thousand Four Hundred Only		



Ganesh Choudhury

Authorized Signatory  
For The Nature Lovers Club & Holidays

*Albera*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



Beautiful Bengal  
West Bengal Tourism

Recognized by Department of Tourism  
Government of West Bengal

TAB

Travel Agent Association of Bengal

ble India  
Ministry of Tourism  
Government of India

Received  
On no 196798 dt 22/11/19  
for 22800/-

Arif  
03/12/2019

Kanchrapara College

Kanchrapara, 24 pgs (N)

Application to receive the grant for educational tour in the Geography

Respected Sir,

I am glad to inform you that we, Sri Ananda Kumar Halder (HOD), Ms Shilpa Das, Sri Subham Basu and Sri Sankar Saha (non teaching staff) along with thirty eight (28) students have completed our educational tour successfully and from 04/11/2019 to 11/11/2019 at GANGTOK AND PELLING.

In this regard I am requesting you to please reimburse our actual expanses of Rs. 34,800/- (8700X4) (Thirty four thousand eight hundred only) for this tour.

Yours faithfully

Ananda Kumar Halder  
(HOD, Dept. of Geography)

1/19  
11/9  
Principal Babu  
Granted Rs. 34800/-  
22/11/19

Prerna

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

# PARYATAN TTT

TRAVEL TEACHERS TOLERATION

4, R.B.C. ROAD  
 NAIHATI-743165  
 PH. 9433714849  
 9433225207  
 033-25024048

14/1 HC N N GHOSH LANE  
 KOL-29  
 PH: 7595917741

PAN : AKFPN8645R

Ref No. : G-029/18

Date: 04/08/2022

To  
 The HOD.  
 Dept. of Geography.  
 Kanchrapara College.  
 24-North Pgs.

PAYMENT DETAILS

SL NO.	DESCRIPTION	RATE PER HEAD (Rs.)	TOTAL AMOUNT (Rs.)
1.	Received Rs. 13,000/- (Rupees thirteen thousand) only as an advance for the Dept Tour to Doorga from 30/10/22 to 4/11/22 @ Rs. 6500/- for 36 Nos. Students & Teacher. Next Intalment - 20/09/22 Final Intalment - 29/10/22	6500/-	13000/-

2- Received Another Advance of Rs. 89500/- (Rupee Eight nine thousand five hundred only) on 20/9/22.  
 Sum of Rs. 1,25,000/- To be paid on 29/10/22

Rs. 13000/- 20/9/22  
 + 89500/- 22/22  
 Total = 1,02,500/-

*Albera*  
 Principal  
 Kanchrapara College  
 Kanchrapara, 24 Pgs (N)



Payment  
Details

**PARYATAN TTT**  
TRAVEL TEACHES TOLERATION

4,R.B.C.ROAD  
NAIHATI-743165  
PH. 9433714849  
9433225207  
033-25024048

14/1 HC N N GHOSH LANE  
KOLKATA-29  
PH: 7595917741

Ref No. :

Date: 4/11/2022

The Principal,  
Kanchrapara College  
Kanchrapara

PARTICULARS	RATE RS.	AMOUNT (RS.)
DOOARS Package Tour from 30-10-2022 to 04-11-2022:-		
Package Tour charges for 36 pax @ 6500/-		234,000/-
Less Advance Received		208,000/-
Net Amount Due (RS.)		26,000/-
Rupees:- Twenty Six thousand only.		

*K. Bera*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)



**DEPARTMENT OF GEOGRAPHY**  
**STUDY TOUR REPORT ON GANGTOK, SIKKIM**  
**Academic year: 2019-20**

Introduction:

An excursion is a trip by a group of students or people, usually programmed for studying geography outside the traditional classroom, where the students visualize and achieve the original knowledge of places and works which they have learned in the books and gain the knowledge of observation, evaluation and data collection and so on mainly the educational purpose.

Overview:

On the Academic year 2019-20 the Dept. of Geography, Kanchrapara College had organized a study tour to fulfil the requirements of the syllabus of 3<sup>rd</sup> year Geography Honours students, University of Kalyani at Gangtok, Sikkim in the first week of December - 2019. Total 28 students of Geography honours had participated on the excursion. There was an Instrumental survey (Dumpy level & Prismatic compass) and direct household, market, school and college survey to analyse the socio- economic condition of the area. Students have analyzed the specific problem of that area by preparing the questionnaire schedule and also have tried to give the measures of that particular problem.



Objectives:

The main objectives of the study tour were to:

1. To provide the direct source of knowledge for the students equipping them with firsthand information.
2. To activate the analytical power of the students.
3. To analyse the socio – economic condition as well as the physical set up of the area.
4. It generates curiosity among the students or learners directing their interests towards the exploration work.



Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

  
18/06/24

HOD/Departmental In-Charge  
Department of.....  
Kanchrapara College  
North 24- Pgs, Pin-743145



DEPARTMENT OF GEOGRAPHY  
STUDY TOUR REPORT ON MANGALBARI VILLAGE, DOOARS  
Academic year: 2018-19

Introduction:

An excursion is a trip by a group of students or people, usually programmed for studying geography outside the traditional classroom, where the students visualize and achieve the original knowledge of places and works which they have learned in the books and gain the knowledge of observation, evaluation and data collection and so on mainly the educational purpose.

Overview:

In the Academic year 2018-19 the Dept. of Geography, Kanchrapara College had organized a study tour to fulfill the requirements of the syllabus of the University of Kalyani (3rd year) at Mangalbari village, Dooars in the month of November - 2022. Total 36 students of Geography honours had participated on the excursion. There was an Instrumental survey (Dumpy level & Prismatic compass) and direct household, market, school and college survey to analyze the socio- economic condition of the area. Students have analyzed the specific problem of that area by preparing the questionnaire schedule and also have tried to give the measures of that particular problem.



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4. It generates curiosity among the students or learners directing their interests towards the exploration work.

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

HOD/Departmental In-Charge  
Department of...18/06/24...  
Kanchrapara College  
North 24- Pgs, Pin-743145

**DEPARTMENT OF GEOGRAPHY**  
**STUDY TOUR REPORT ON GANGTOK, SIKKIM**  
**Academic year: 2019-20**

Introduction:

An excursion is a trip by a group of students or people, usually programmed for studying geography outside the traditional classroom, where the students visualize and achieve the original knowledge of places and works which they have learned in the books and gain the knowledge of observation, evaluation and data collection and so on mainly the educational purpose.

Overview:

On the Academic year 2019-20 the Dept. of Geography, Kanchrapara College had organized a study tour to fulfil the requirements of the syllabus of 3<sup>rd</sup> year Geography Honours students, University of Kalyani at Gangtok, Sikkim in the first week of December - 2019. Total 28 students of Geography honours had participated on the excursion. There was an Instrumental survey (Dumpy level & Prismatic compass) and direct household, market, school and college survey to analyse the socio- economic condition of the area. Students have analyzed the specific problem of that area by preparing the questionnaire schedule and also have tried to give the measures of that particular problem.



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Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

18/06/24

HOD/Departmental In-Charge  
Department of...*Geography*  
Kanchrapara College  
North 24- Pgs, Pin-743145

Payment  
Details

**PARYATAN TTT**  
TRAVEL TEACHES TOLERATION

4, R.B.C. ROAD  
NAIHATI-743165  
PH. 9433714849  
9433225207  
033-25024048

14/1 HC N N GHOSH LANE  
KOLKATA-29  
PH: 7595917741

Ref No. :

Date: 4/11/2022

The Principal,  
Kanchrapara College  
Kanchrapara

PARTICULARS	RATE RS.	AMOUNT (RS.)
DOOARS Package Tour from 30-10-2022 to 04-11-2022:-		
Package Tour charges for 36 Pax @ 6500/-		234,000/-
Less Advance Received		20,800/-
Net Amount Due (RS.)		26,000/-
Rupees: Twenty Six thousand only.		

*[Signature]*

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

*[Signature]*  
4/11/22  


DEPARTMENT OF GEOGRAPHY  
STUDY TOUR REPORT ON MANGALBARI VILLAGE, DOOARS  
Academic year: 2018-19

Introduction:

An excursion is a trip by a group of students or people, usually programmed for studying geography outside the traditional classroom, where the students visualize and achieve the original knowledge of places and works which they have learned in the books and gain the knowledge of observation, evaluation and data collection and so on mainly the educational purpose.

Overview:

In the Academic year 2018-19 the Dept. of Geography, Kanchrapara College had organized a study tour to fulfill the requirements of the syllabus of the University of Kalyani (3rd year) at Mangalbari village, Dooars in the month of November - 2022. Total 36 students of Geography honours had participated on the excursion. There was an Instrumental survey (Dumpy level & Prismatic compass) and direct household, market, school and college survey to analyze the socio- economic condition of the area. Students have analyzed the specific problem of that area by preparing the questionnaire schedule and also have tried to give the measures of that particular problem.




Objectives:

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Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

  
HOD/Departmental In-Charge  
Department of...18/06/24...  
Kanchrapara College  
North 24- Pgs, Pin-743145

**DEPARTMENT OF GEOGRAPHY**  
**STUDY TOUR REPORT ON MANGALBARI VILLAGE, DOOARS**  
**Academic year: 2022-23**

Introduction:

An excursion is a trip by a group of students or people, usually programmed for studying geography outside the traditional classroom, where the students visualize and achieve the original knowledge of places and works which they have learned in the books and gain the knowledge of observation, evaluation and data collection and so on mainly the educational purpose.

Overview:

On the Academic year 2022-23 the Dept. of Geography, Kanchrapara College had organized a study tour to fulfil the requirements of the syllabus of the University of Kalyani (GEO-H-CC-P-11) at Mangalbari village, Dooars in the month of November - 2022. Total 32 students of Geography honours had participated on the excursion. There was an Instrumental survey (Dumpy level & Prismatic compass) and direct household, market, school and college survey to analyse the socio- economic condition of the area. Students have analyzed the specific problem of that area by preparing the questionnaire schedule and also have tried to give the measures of that particular problem.

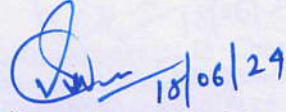


Objectives:

The main objectives of the study tour were to:

1. To provide the direct source of knowledge for the students equipping them with the first hand information.
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3. To analyse the socio – economic condition as well as the physical set up of the area.
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Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

  
18/06/24  
HOD/Departmental In-Charge  
Department of.....  
Kanchrapara College  
North 24- Pgs, Pin-743141

## LIST OF PASSENGERS

Sl. No.	Name of the teaching staff
1.	Mrs. Sanjali Das
2.	Mr. Subham Basu
3.	Miss Shilpa Biswas
4.	Mr. Ananda Kumar Halder

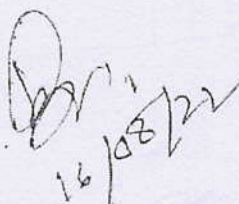
Sl. No.	Name of the students	Sl.No.	Name of the students
1.	Adrija Maitra	17.	Shana Iqbal
2.	Ahana Das	18.	Suchismita Chattoraj
3.	Aishwarya ghosh	19.	Swantika Samanta
4.	Amrita Kar	20.	Unique Fairy
5.	Anjali Singh	21.	Avik Das
6.	Arpita Dey	22.	Birburu Baskey
7.	Bedangini Biswas	23.	Dipta Pal
8.	Barnali Roy	24.	MD meheub hossain
9.	Chitrlekha Biswas	25.	Shilajit Karmakar
10.	Dona Karmakar	26.	Shivam Saha
11.	Indrani Sarkar	27.	Soumajit Ghosh
12.	Jhumpa Dey	28.	Subhradip Das
13.	Kabita Saha	29.	Ujjal Sharma
14.	Risma Biswas	30.	Supriya Roy
15.	Rwitika Saha	31.	Antara Acharya
16.	Sayani Dey	32.	Debaroti Guha


  
03/08/2022


Sanjali Das

HOD/Departmental in-Charge

Department of Geography.

  
16/08/22

  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

  
18/06/24  
HOD/Departmental In-Charge  
Department of Geography  
Kanchrapara College  
North 24- Pgs, Pin-743147

DEPARTMENT OF GEOGRAPHY, KANCHRAPARA COLLEGE, EDUCATIONAL TOUR, 2019, (STUDENTS DETAILS)

SL. NO.	NAME OF THE STUDENTS	AGE	SEX	STUDENTS PHONE	GUARDIANS PHONE
01	ADITI DEY	20	F	1069252801	9883293852
02	AESANA KHATUN	19	F	9051058650	9038738864
03	ANSHU SAMADDER	19	F	9830966979	7679099644
04	ARIJIT BHOWMICK	19	M	Amish (9064684815)	7501096264
05	ARNAB KR. DAS	20	M	Amob (9775439590)	9046353953
06	BAPPA MUNSHI	19	M	6290382773	
07	ESHKA MONDAL	19	F	8240670477	8296464080
08	INDIRA DAS	19	F	7063359910	9619436320
09	ITISREE DEY	19	F	8777801134	9221658944
10	KOYEL ROY	19	F	9593071546	920018043
11	KRISHNENDU AICH	19	M	1407090715	7707220638
12	PIYASHA SAMANTA	19	F	7003874532	84179872064
13	PUJA SAHA	19	F	8910921058	9163786677
14	RIYANKA MAJUMDER	20	F	9088140480	9732035935/933289430
15	ROHAN DAS	20	M	8116775456	7029461964
16	SHREYASHREE GANGULY	20	F	9681644720/6291262	9681644720
17	SNEHA SARKAR	19	F	8145220917	6825401503
18	SOURAV DEBNATH	20	M	9732200404	9732557461
19	SUBHANKAR MAZUMDAR	20	M	9748769774	9748769774 / 9748478952
20	SUDIPTO ROY	19	M	8436637977	5775108868
21	SUTAPA KUNDU	19	F	8777408941	9883551151
22	SUVOSREE DUTTA	19	F	6290960449	92299044749
23	SWADHIN GHOSH	20	M	8637043213	9434244775
24	UNMESH CHATTERJEE	19	M	87799593245	9038999487
25	ANKITA TAPADER	20	F	8777738915	9007742191
26	PRİYANKA DAS	19	F	9007456594	9007604364
27	TIASHA PAL	20	F	8918146525	8944076681
28	SANJIBITA SAHA	20	F	9123868343	9830922202
29	MARBANITA MAJUMDAR	19	F	9681201896	8584875820/9804914037
30	SOHA MAJUMDAR	19	F	6291111587	7980811725

*P. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

*Dr. [Signature]*  
18/6/24  
HOD/Departmental In-Charge  
Department of Geography  
Kanchrapara College  
North 24- Pgs, Pin-743145

# Kanchrapara College

ESTD : 1972

☎ : STD-033 2585 5159 / 8790  
2876 1587 (Offi.)  
website : www.kpcoll.net  
e-mail : info@kpcoll.net  
e-mail : principal@kpcoll.net

From :



P.o. : KANCHRAPARA  
DIST. : NORTH 24 PARGANAS  
WEST BENGAL, PIN-743145

Ref. No. :



Date :

## To Whom It May Concern

This is to certify that the following 3<sup>rd</sup> year Hons. Students of Kanchrapara College, Dept. of Geography, along with teacher guide Sri Ananda Kumar Halder (Head of the Dept.), Mrs Sanjali Das as well as one non-teaching staff Sri Sankar Saha are going to visit Dooars and surrounding areas for educational purpose.

I am requesting the appropriate authority concerned to please co-operate with them as and when required. Some equipments relating to geographical student will be carried by them.

Sl.No.	Name	Sl.No.	Name
1	ANU PAUL	16	RIMI BISWAS
2	SANJUKTA GHOSH	17	GITASREE SAHA
3	SOUMI MUKHERJEE	18	PURABI SEN
4	ANJALI DAS	19	ANIRBAN SARKAR
5	RAKESH PRAMANIK	20	ARAJIT DAW
6	SURAJ MONDAL	21	TANMOY SANNNYASI
7	PRITAM PAUL	22	SNEHA SARKAR
8	SUPRADIP ADHIKARI	23	RANKITA GAYEN
9	SUBHASISH BHADRA	24	SABNAM MONDAL
10	DIPANKAR MONDAL	25	GAZI TOUFIQ ILAHI
11	MADHURIMA NANDI	26	MADHU BAIRAGI
12	SHARMIATHA SHIL	27	ANKITA TAPADER
13	RIYA BARAI	28	BIKRAMJIT BOSE
14	SUSMITA MONDAL	29	PALLABI MALLICK
15	NILANJANA BOSE		

Place: Kanchrapara

Date: 04.10.2018

*N*  
*4-10-18*  
(Sri Nirmatya Majumdar)  
Teacher-in-Charge  
Kanchrapara College  
**Teacher-in-Charge**  
**Kanchrapara College**

*P. Bera*  
Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

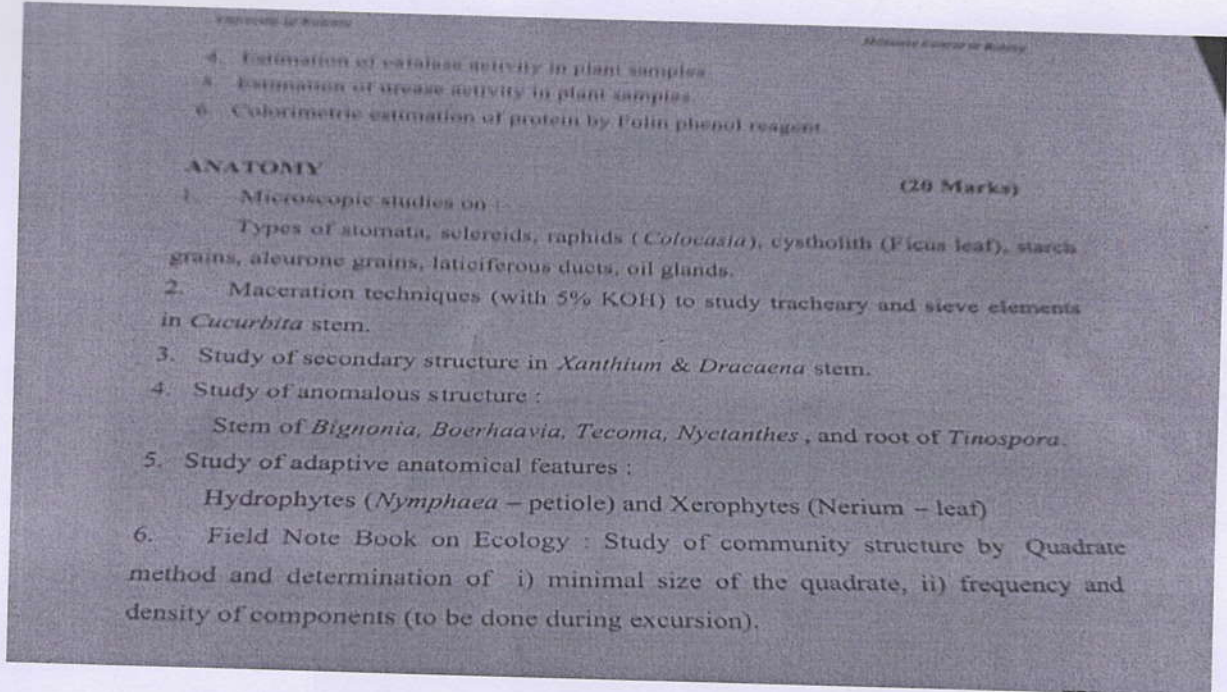
*D. S. Das*  
15/10/18  
HOD/Departmental In-Charge  
Department of Geography  
Kanchrapara College  
North 24- Pgs, Pin-743145



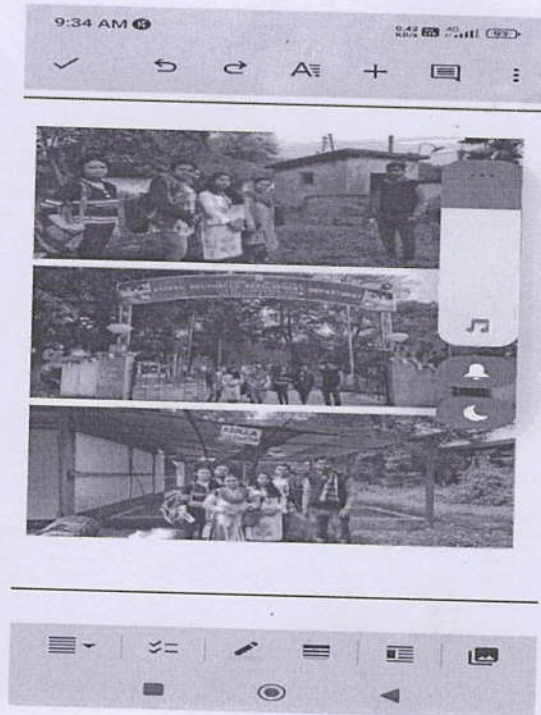
Department of Botany

Field Report

Paper-IX (K.U syllabus with effect from the session-2019-2020)



1. Place of visit: Animal Resources Development Department-State Livestock Farm, Govt of West Bengal  
No. of Students: 5  
No. Of Teachers: 2



*Altera*  
**Principal,**  
**Kanchrapara College**  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)

*Altera*  
Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas

2. Place of Visit-Dooars

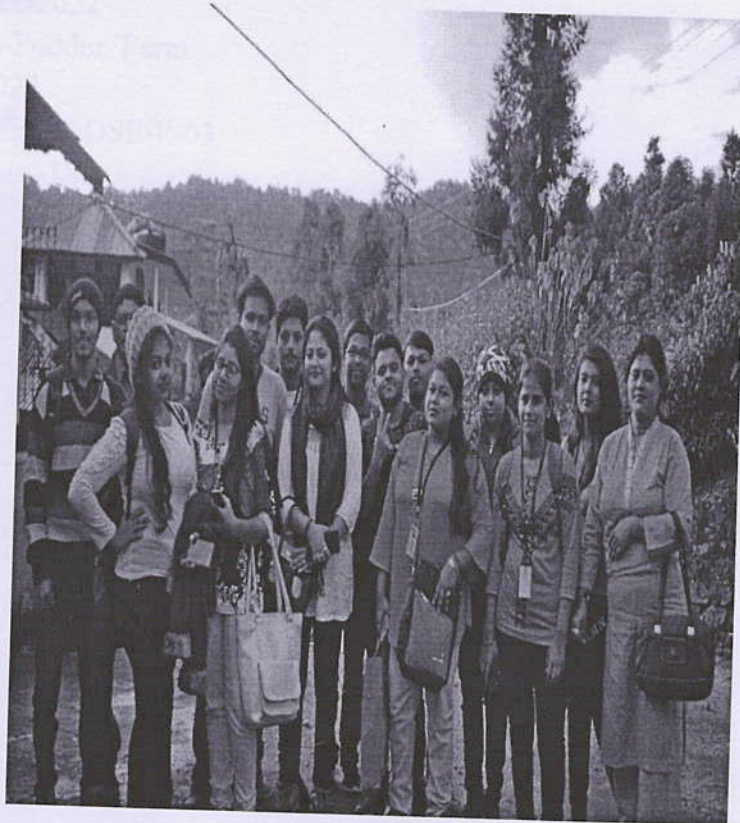
Date: 4<sup>th</sup> Nov. 2019

Paper-UG-H-BOT-CC-P-08

-UG-H-BOT-GE-P-02

No. of students-34

No of Teachers -2

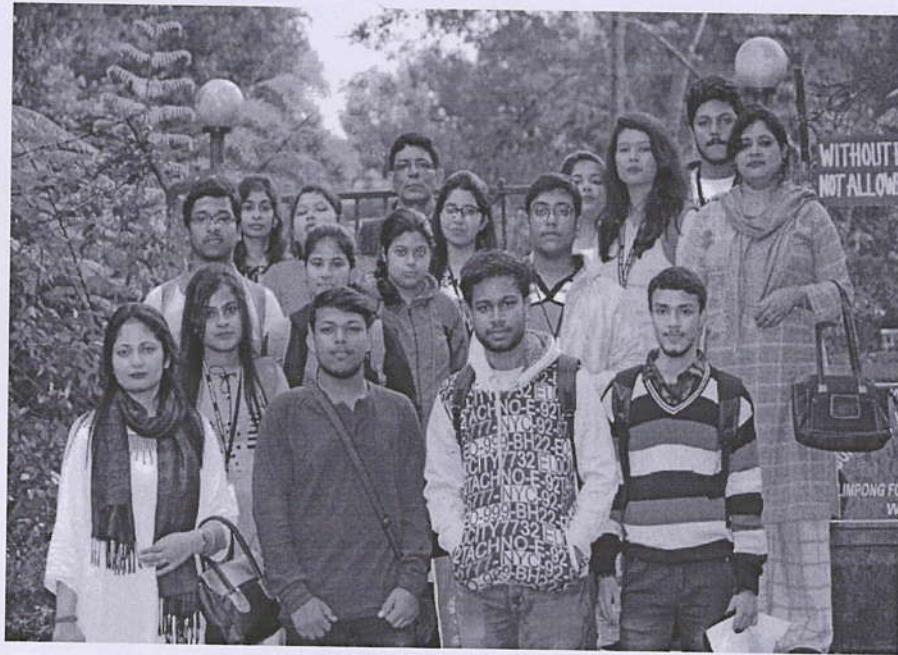


*Albera*

Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)

*Aslam*

Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Pargana



3. Session-2020-2021  
No Excursion due to Pandemic situation
4. Sedssion-2021-2022  
Place of visit-Fodder Farm  
Date: 16.3.2022  
Paper-UG-H-BOT-DSE-P-03  
No. of students -18



*Principa*  
Principal  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)

*Prady*  
Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas

INFRONT OF AZOLLA CULTIVATION



5. Session-2022-2023

Date: 05.01.2023

Place of visit-BSI

Paper:

-UG-H—BOT-CC-P-08


-UG-H-BOT-DSE-T-03

No of students-24

No of Teachers: 5



  
Principal,  
Kanchrapara College  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)

  
Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas



6. Place of visit –Sitong, Lava, Burmik

Date of visit: 11.3.2023

Paper-UG-H-BOT-DSE-P-03

UG-H-BOT-GE-P-02

No of students-35

No of Teachers-2

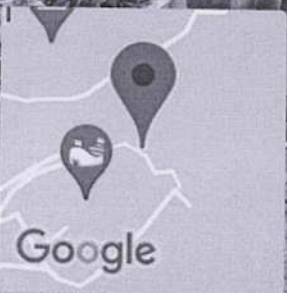
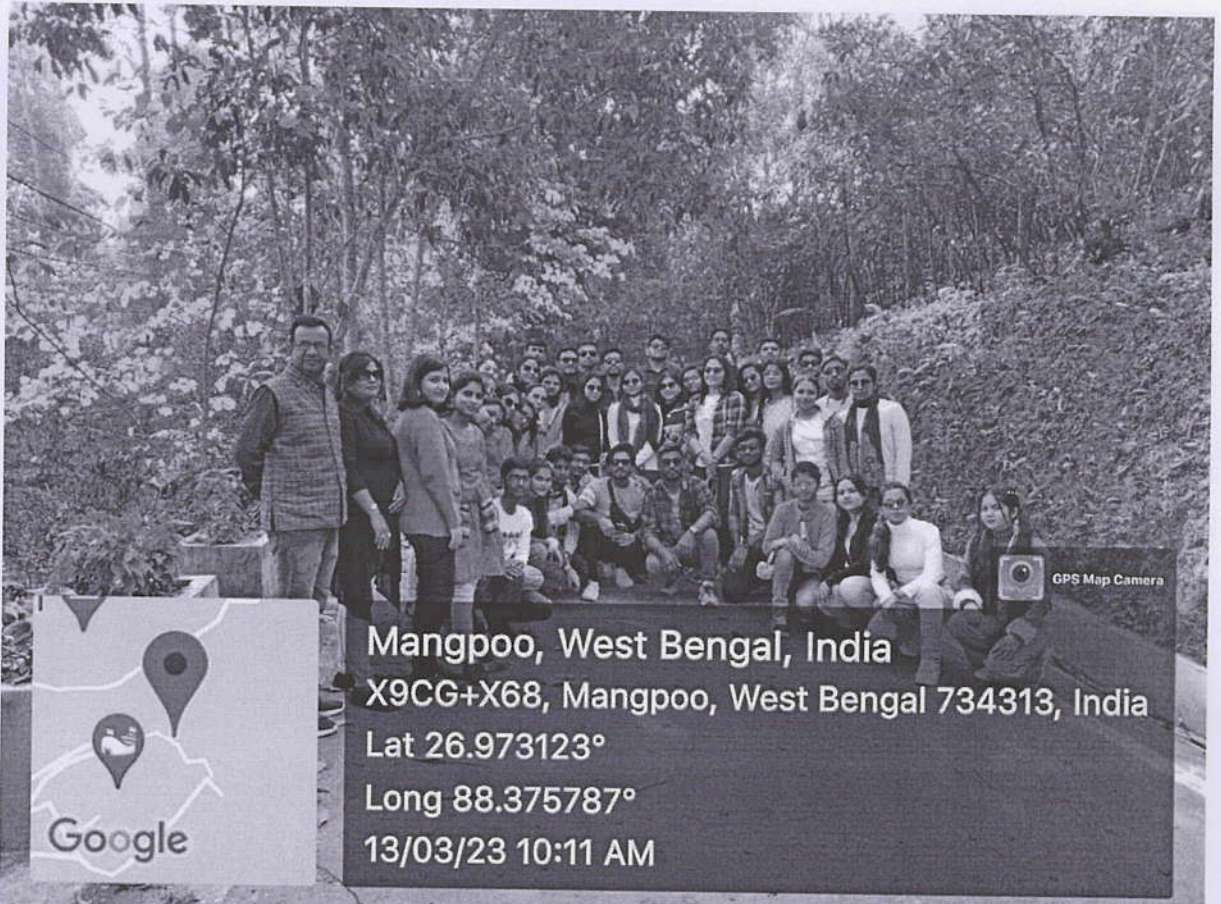
*P. Saha*

Principal

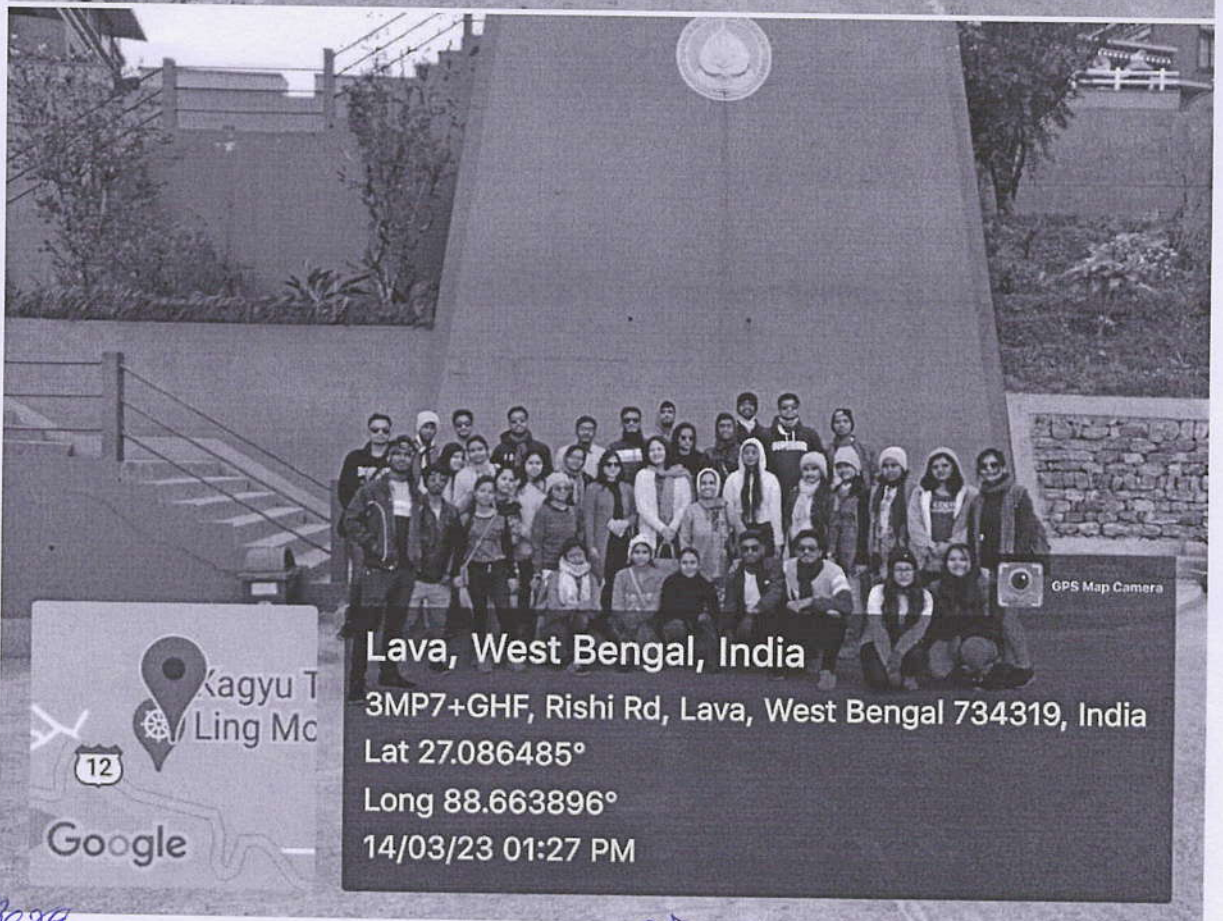
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)

*P. Roy*

Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganae



Mangpoo, West Bengal, India  
X9CG+X68, Mangpoo, West Bengal 734313, India  
Lat 26.973123°  
Long 88.375787°  
13/03/23 10:11 AM



Lava, West Bengal, India  
3MP7+GHF, Rishi Rd, Lava, West Bengal 734319, India  
Lat 27.086485°  
Long 88.663896°  
14/03/23 01:27 PM

*Prasanna*

Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)

*Pradyumn*

Head of the Dept.  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas-




*Principa*  
**Principal**  
**Kanchrapara College**  
P.O. - Kanchrapara, Dist. - 24 Pgs. (N)

*Prady*  
Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas

EXCURSION TO SITTONG, LAVA, BARMEK (11.03.2023)

(Session: 2022-2023)

Name of Teacher	Name of student
1. Barnali Roy	1. Arka Das
2. Sangeeta Banerjee	2. Sayan Dey
	3. <u>Sounak Dutta</u>
	4. <u>Moumita Mondal</u>
	5. Bhaskar Roy
	6. Lakshi Roy
	7. Sayanti Mondal
	8. Gitanjali Das
	9. Ishika Das Ghosh
	10. Dipannita Das
	11. Kaberi Ganguli
	12. Antara Saha
	13. Sohini Karmakar
	14. Subrajit Pal
	15. Milisha Das
	16. Amit Saha
	17. Arthita Saha
	18. Anay Mondal
	19. Ayon Mistry
	20. Dipasree Saha
	21. Akash Shaw
	22. Ahana Ghosh
	23. Debanjana Das
	24. Limon Mondal
	25. Sonali Das
	26. Esha Kumari Shaw
	27. Sohan Sadhukhan
	28. Deepa Dalal
	29. Sudeshna Mukherjee
	30. Sudipta Mondal
	31. Sayanika Biswas
	32. Chandan Dhali
	33. Suraj Biswas
	34. Romit Mondal
	35. Ankita Das

  
Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas

  
Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)



EXCURSION TO DOOARS

(Session: 2019-2020)

Name of Teacher	Name of student
1. Samir Dutta	1. Abhinaba Sarkar
2. Sangeeta Banerjee	2. <u>Amardeep Biswas</u>
	3. <u>Manisha Bose</u>
	4. <u>Puja Ghosh</u>
	5. Sandhya Sharma
	6. Shantanu Biswas
	7. Sayani Mondal
	8. Sohini Sarkar
	9. Somdatta Bhattacharya
	10. Sudip Kumar Mohanta
	11. Trisha Biswas
	12. Souparna Mahato
	13. Sayani Mitra
	14. Pratim Biswas
	15. Payel
	16. Nitika Sharma
	17. Aditi
	18. Arindam Singh
	19. Samrath Das
	20. Bipra Das
	21. Arunima
	22. Arnab
	23. Arindam

*[Signature]*

Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)

Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas

*[Signature]*  
Principal  
Kanchrapara College  
P.O.- Kanchrapara, Dist.- 24 Pgs. (N)

*[Signature]*  
Head of the Department  
Department of Botany  
Kanchrapara College  
Kanchrapara, North 24 Parganas

# JAGANNATH SPECIAL TOURS & TRAVELS



4/1A Waterloo Street, Kolkata - 700069

Web: www.jagannathspecial.com

Mail: jagannathspecial@gmail.com, Ph.: 4003-7979 / 9830684056 / 9831560730

GSTIN : 19CKAPS8597J1Z6	<b>INVOICE</b>	Original for recipient
		Duplicate for supplier/Transporter
		Triplicate for supplier

Invoice No.:

Date: 22.02.2023

Hotel details: Sithong & Bernak. (Kalinpong)

Add: West Bengal

Contact No.: 9830684056 / 9831560730

Check in: 12.03.2023 Check out: 15.03.2023

Room Details: Deluxe (Home stay)

No. of Rooms: Four / with sharing

Room tariff: .....

**Guest Details:**

Mr. Mrs.: Kanchrapara College (Botany Dep) U.G.

Address: Kanchrapara 763145 24 Parganas (W)

No. of Persons: 042 (Party two) approx.

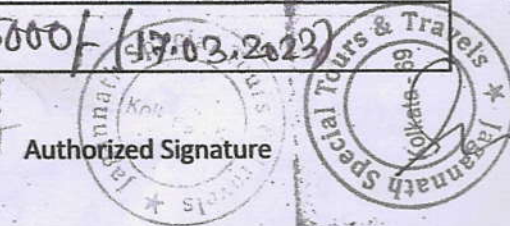
Remarks: .....

G.S.T. No: .....

Bank Details :		Payment details:	
JAGANNATH SPECIAL Bank Name : Bank of Baroda Branch : Baranagar Branch A/C. No.: 00370200000976 IFSC : BARB0BARANA Current Account	JAGANNATH SPECIAL Bank Name : Axis Bank Branch : Dakshineswar Branch A/C. No.: 915020012753104 IFSC : UTIB0001507 Current Account	CGST %	
		SGST %	
		IGST %	
		1 <sup>st</sup> Advance	35000/- (22.03.23)
		2 <sup>nd</sup> Advance	85000/- (09.03.2023)
		Total Amount	1,20,000/- (17.03.2023)

Rupees in Word: One Lacs Eighty  
Five thousand Only

185000/-



*[Handwritten signature]*

17.03.2023 *[Signature]* 17.03.2023

Principal  
Kanchrapara College  
Kanchrapara, 24 Pgs (N)

# Expenditure for Educational Excursion

## DEPARTMENT OF BOTANY, KANCHRAPARA COLLEGE

List of Students for Educational Excursion at Burmik and Sittong on 11/03/2023

Name:

Phone Number:

Total - Students - 37

Faculties - 2

Staff - 2

$$41 \approx 40 \times 6,000$$

$$\approx 2,40,000 \text{ Rs}$$

Payment to be done by College  $37 \times 1000 = 37,000/-$   
 $3 \times 6000 = 18,000/-$   

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 $55,000/-$

$2,40,000 - 55,000 = 1,85,000/-$  paid by Department  
 $- 35,000/-$

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 $1,50,000/-$   
 $- 75,000$

---

 $75,000$

$- 10,000$

---

 $65,000$

35,000.

$\checkmark 40,000$

Aspiran Saha

09.03.2023

Prasen

17.03.2023

Principal

Kanchrapara College  
Kanchrapara, 24 Pgs (N)

Total  
Received  
Rs. 1,85,000/-

As Roy

Sub Excursion - 2023.

No of Students + Professor + Non teaching.

$$\Rightarrow \underline{38} + \underline{2} + \underline{2} = \textcircled{42} \textcircled{+1} (FOG)$$

$$\textcircled{\text{@}} 6000/- = \underline{246000/-} - 6000/- = 240000/-$$

i) 1st advance. Revised - 35000/-

$$\text{True amount} - 246000/- - 35000 = 211000/- - 6000/- \\ = 205000/-$$

$$\text{Total Advance} = 35000/- + 85000/- = 120000/-$$

$$= \text{Due} = 120000/-$$

*[Handwritten signature]*

*[Handwritten signature]*

Principal  
Kanchrapara College  
Kanchrapara. 24 Pgs (N)

