

GONDIA EDUCATION SOCIETY'S

MANOHARBHAI PATEL COLLEGE OF ARTS, COMMERCE & SCIENCE

SADAK ARJUNI, GONDIA-441807

(AFFILIATED TO R.T.M.NAGPUR UNIVERSITY)



Cycle-1

**Assessment & Accreditation by
NAAC**

**CRITERION I:
CURRICULAR ASPECTS**

QnM-2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Gondia Education Society's



Estd. 2009

MANOHARBHAI PATEL COLLEGE OF ARTS, COMMERCE & SCIENCE

SADAK ARJUNI, Dist. Gondia.(Maharashtra) 441807

Affiliated to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

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Ref.No. MBPCI/ ³³⁶ 120222023

Date : 28/02/2023

Declaration

The information, reports, true copies of the supporting documents, numerical data, etc. furnished in this file is verified by IQAC and found correct.

Hence this certificate.

Mr. A. M. Patil
IQAC Coordinator
Manoharbai Patel College
Sadak Arjuni



Dr. A. S. Dwivedi
Chairman IQAC and Principal
Manoharbai Patel College
Sadak Arjuni

Date: 19/09/2016

To,
The Principal,
Manoharbhair Patel College,
Sadak Arjuni, Dist. Gondia.



Subject: Permission for one day study tour (Botanical and Zoological Excursion) to Shirpur Dam and Bhilai (Maitri Bagh)

Res. Sir,

With reference to above cited subject I wish to state that Department of Botany and Zoology has jointly planned a study tour (Botanical and Zoological Excursion) to Shirpur Dam and Bhilai (Maitri Bagh) on 24/09/2016.

Please permit us for the same

Thank you.

Yours sincerely,

Prof. Sunil M. Akare
Head, Department of Botany

Principal
Manoharbhair Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807

Date: 21/09/2016

To,

Prof. Sunil M. Akare
Head, Department of Botany

Subject: Permission for study tour (Botanical and Zoological Excursion)

Reference: Your application dated 19/09/2016

Sir,

You are hereby informed that you can go to study tour on 21/09/2016 to Shirpur Dam and Bhilai (Maitri Bagh) as mentioned in your application.

Taking students with you and returning to college is your responsibility.



Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807

Report

Botanical / Zoological Excursion

Department of Botany and Zoology

Place: Shirpur Dam and Bhilai (Maitri Bagh)



Department of Botany and Zoology jointly organised study tour (Botanical / Zoological Excursion) on dated 24/09/2016 at 08am. Total 85 students from B.Sc.I,II,III year participated in tour. Hon. Principal Dr. A. S. Dwivedi and all staff members gathered in college to greet us.

Firstly we started our journey for Shirpur Dam which is 32km away from the Sadak Arjuni. We reached the destination at 09am. Shirpur Dam, is an earth fill and gravity dam on Bagh River near Deori, Gondia District in the state of Maharashtra. The reservoir created by the dam is also known as Bagh reservoir. It is a joint project of Maharashtra and Chhattisgarh states located in Godavari river basin Shirpur.

Manohar Sagar/Shirpur Dam is a place with natural beauty having small hills and dense forest surrounding to the reservoir. Forest is very rich in vegetation having variety of lower to higher plants species. Under the guidance of Prof. S. M. Akare, Head Department of Botany and Dr. N. Sangrame students were studied various characteristics of plants in natural habitat.

During the Excursion we observed many lower plants like Algae (*Nostoc* spp., *Spirogyra*), Fungi (Mushrooms, Polyporous) Lichens (Fruticose, Foliose), Bryophytes (*Anthoceros*, *Funaria*), Pteridophytes (*Glossopteris*, *Adiantum*, *Selaginella*), Insectivorous plants (*Nitella*) and many more.



We studied various Monocots, Dicots, Epiphytes (Vanda), Parasitic plants (Cuscuta) etc. Various timber yielding plants like *Tectona grandis*, *Dalbergia sisso*, *Azadirhachta indica*, *Tarminalia tomentosa*, *Mangifera indica*, *Acacia* sp., etc. and various medicinal plants like *Andrographis paniculata*, *Azadirhachta indica*, *Butea*, *Aconitum*, *Adathoda*, *Cannabis*, *Carica*, *Croton*, *Embelica*, *Gymnema*, *Vinca*, etc. were also observed.


Then we started our journey for Bhilai (Maitri Bagh) Chhattisgarh state. Maitri Bagh Zoo also known as Garden of Friendship is tourist place located in the Bhilai, India which was established as a symbol of friendship between Soviet Union and India. It is the largest and oldest zoo of Chhattisgarh and Madhya Pradesh. The highlights of the Zoo are exotic animal and avian species.

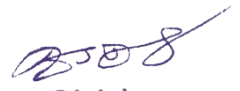
The Park is situated in the heart of Bhilai City and spread over an area of 131.00 acres of land in center of Steel Township. The Park was opened for the public in the year of 1972. It is owned and managed by SAIL/Bhilai Steel Plant. Now-a-days it is an abode of rare and endangered species of wild life and colorful birds. The lush sylvan surrounding of the park has become a centre place of attraction for the resident of this industrial belt. Under the guidance of Prof. N. D. Gorghate, head, department of zoology and Prof. S. M. Akare head, department of Botany students were studied fauna and flora of the garden. The garden having variety of animals species likes Spotted Deer, Barking Deer, Sambar Deer, Nilgai, Black Buck, Royal Bengal Tiger, Tiger (White), Lioness, Leopard, Hyena, Crocodile, Small Palm Civet, Jackal, Owlet Forest, Spotted Himalayan Bear, Sloth Bear, Macaque Bonnet & Macaque Rhesus, Common Languor, Porcupine Parrot, EMU, Peacock, Love Bird, Cocktail, Budgerigar, Python, Ghariyal, Pelican(Gray & Rosy), Adjutant Stork, Star Tortoise, etc. After observing fauna and flora of maitri bagh we return back around 7pm in college campus.

Our study was very interesting, student participants interacted in a very disciplined manner, cooperated well with the teachers guides and overall the tour was grand success. We realised that viewing the flora and fauna in its natural form made us things vivid enhancing classrooms lectures and laboratory experiments.



Photos of Students during excursion


 Prof. Sunil M. Akare
 Head, Department of Botany


 Principal
 Manoharbai Patel Arts, Commerce
 & Science College, Sadak Arjuni,
 Dist Gondia, Pin Code - 441807

Date: 15/09/2017

To,
The Principal,
Manoharbai Patel College,
Sadak Arjuni, Dist. Gondia.



Subject: Permission for one day study tour (Botanical and Zoological Excursion) to Shivanibandh, Rawanwadi and Ziri.

Res. Sir,

With reference to above cited subject I wish to state that Department of Botany and Zoology has jointly planned a study tour (Botanical and Zoological Excursion) to Shivanibandh, Rawanwadi and Ziri on 22/09/2017.

Please permit us for the same

Thank you.

Yours sincerely,

Prof. Sunil M. Akare
Head, Department of Botany

Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807



Date: 18/09/2017

To,

Prof. Sunil M. Akare
Head, Department of Botany

Subject: Permission for study tour (Botanical and Zoological Excursion)

Reference: Your application dated 15/09/2017

Sir,

You are hereby informed that you can go to study tour on 22/09/2017 to Shivanibandh, Rawanwadi and Ziri as mentioned in your application.

Taking students with you and returning to college is your responsibility.

Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807

Report

Botanical / Zoological Excursion

Department of Botany and Zoology

Place: Shivanibandh, Rawanwadi and Ziri



Department of Botany and Zoology jointly organised study tour (Botanical / Zoological Excursion) on dated 22/09/2017 at 08am. Total 92 students from B.Sc.I,II,III year participated in tour. Hon. Principal Dr. A. S. Dwivedi and all staff members gathered in college to greet us. Firstly we started our journey for Shivanibandh which is 30km away from the Sadak Arjuni. We reached the destination at 09am. Shivanibandh is famous for lake and fish seed center. It fulfilled the need of fish seed of whole Bhandara and Gondia district. The purpose of Fish farm visit was to provide students with theoretical & practical experience regarding fish Culture. This trip also provided an opportunity to learn many things and give students a well-rounded foundation upon which build our knowledge for future. Dr. Marbate, Officer incharge of fish rearing center, Shivanibandh gave demonstration on induced breeding in fishes Prof. N D. Gorghate, Head of Department of Zoology & Prof. B. P. Parvate nicely explained about the process of fish seed production. After this we started our journey for Rawanwadi.

Rawanwadi is a place with natural beauty having Rawanwadi Talav / Rawanwadi Dam was constructed as part of irrigation projects by Government of Maharashtra in the year 1960. This place having small hills and dense forest surrounding to the lake. Forest is very rich in vegetation having variety of lower to higher plants species. Under the guidance of Prof. S. M. Akare, Head



Department of Botany and Dr. N. Sangrame students were studied various characteristics of plants in natural habitat.

During the Excursion we observed many lower plants like Algae (*Nostoc* spp., *Spirogyra*), Fungi (Mushrooms, Polyporous) Lichens (Fruticose, Foliose), Bryophytes (*Riccia*, *Funaria*), Pteridophytes (*Glossopteris*, *Nephrolepis*, *Adiantum*, *Selaginella*), Insectivorous plants (*Nitella*) and many more.

We studied various Monocots, Dicots, Epiphytes (Vanda), Parasitic plants (*Cuscuta*) etc. Various timber yielding plants like *Tectona grandis*, *Dalbergia sisso*, *Azadirhachta indica*, *Terminalia tomentosa*, *Mangifera indica*, *Syzygium* sp., *Acacia* sp., etc. and various medicinal plants like *Andrographis paniculata*, *Azadirhachta indica*, *Butea*, *Aconitum*, *Adathoda*, *Cannabis*, *Carica*, *Croton*, *Embelica*, *Gymnema*, *Vinca*, etc. were also observed.

Lastly we started our journey for last spot Ziri which located near Jawaharnagar of Bhandara city. This place also having dense forest with hilly area and water bodies. In this place abundantly found *Nostoc* spp. and *Nitrella* spp. After observing the plants we return back around 7pm in college campus.

Our study was very interesting, student participants interacted in very disciplined manner, cooperated well with the teachers guides and overall the tour was grand success. We realised that viewing the flora and fauna in its natural form made us things vivid enhancing classrooms lectures and laboratory experiments.



Photos of Students during excursions

Prof. Sunil M. Akare
Head, Department of Botany

Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807

Date: 07/01/2019

To,
The Principal,
Manoharbai Patel College,
Sadak Arjuni, Dist. Gondia.



Subject: Permission for one day study tour (Botanical and Zoological Excursion) to Ghodazari.

Res. Sir,

With reference to above cited subject I wish to state that Department of Botany and Zoology has jointly planned a study tour (Botanical and Zoological Excursion) to Ghodazari on 12/01/2019.

Please permit us for the same

Thank you.

Yours sincerely,

Prof. Sunil M. Akare
Head, Department of Botany

Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807



Date: 09/01/2019

To,
Prof. Sunil M. Akare
Head, Department of Botany

Subject: Permission for study tour (Botanical and Zoological Excursion)

Reference: Your application dated 07/01/2019

Sir,

You are hereby informed that you can go to study tour on 12/01/2019 to Ghodazari as mentioned in your application.

Taking students with you and returning to college is your responsibility.

Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807

Report

Botanical / Zoological Excursion

Department of Botany and Zoology

Place: Ghodazari



Department of Botany and Zoology jointly organised study tour (Botanical / Zoological Excursion) on dated 12/01/2019 at 08am. Total 95 students from B.Sc.I,II,III year participated in tour. Hon. Principal Dr. A. S. Dwivedi and all staff members gathered in college to greet us. We started our journey for Ghodazari which is 111km away from the Sadak Arjuni. We reached the destination at 11.30am.

Ghodazari Wildlife Sanctuary is a wildlife reserve established in 2018 in Nagbhir in the Chandrapur district of the Vidarbha region in Maharashtra. It includes 159 km² (61 sq mi) of southern tropical dry forest and a lake. The forest is considered a key region on the connecting corridor for the tiger migration between the Tadoba Andhari Tiger Project and Umred Karhandala Wildlife Sanctuary. It is named after a village of the same name that is almost in the middle of the forest, about 2 km from the dam and the resort.

Under the guidance of Prof. N. D. Gorghate, head, department of zoology and Prof. S. M. Akare head, department of Botany students were studied fauna and flora of the garden. The sanctuary is also home to many wild mammals such as Tiger, Indian Leopards, Sloth bears, Gaur, Dhole, Nilgai, Small Indian civet, Jungle cats, Sambar, Barking deer, Chital, and Wild boar.

Ghodazari lake is an important destination for the native and migratory birds due to its undisturbed water body and abundance of food. Numerous

reptiles have been recorded there, including the Indian python, Common Indian monitor, Indian cobra and Russell's viper.

The Ghodazari Wildlife Sanctuary consists mainly of deciduous forest which has an extensive distribution of tree species likes Teak, Palas, Ain, Bija, Hald, Salai, Semal, Tendu, Beheda, Hirda, Karaya gum, Mahua and Bamboo. After observing the plants and animals we return back around 7pm in college campus.

Our study was very interesting, student participants interacted in much disciplined manner, cooperated well with the teacher's guides and overall the tour was grand success. We realised that viewing the flora and fauna in its natural form made us things vivid enhancing classrooms lectures and laboratory experiments.





Photos of students during Excursion

Prof. Sunil M. Akare
Head, Department of Botany

Principal
Manoharbhai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807

Date: 20/01/2020

To,
The Principal,
Manoharbai Patel College,
Sadak Arjuni, Dist. Gondia.



Subject: Permission for one day study tour (Botanical and Zoological Excursion) to Hazrafall and Kachargarh

Res. Sir,

With reference to above cited subject I wish to state that Department of Botany and Zoology has jointly planned a study tour (Botanical and Zoological Excursion) to Hazrafall and Kachargarh on 24/01/2020.

Please permit us for the same

Thank you.

Yours sincerely,

Prof. Sunil M. Akare
Head, Department of Botany

Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist Gondia, Pin Code - 441807



Date: 22/01/2020

To,
Prof. Sunil M. Akare
Head, Department of Botany


Subject: Permission for study tour (Botanical and Zoological Excursion)

Reference: Your application dated 20/01/2020

Sir,

You are hereby informed that you can go to study tour on 24/01/2020 to Hazrafall and Kachargarh as mentioned in your application.

Taking students with you and returning to college is your responsibility.


Principal
Manoharbai Patel Arts, Commerce
& Science College, Sadak Arjuni,
Dist. Gondia, Pin Code - 441807

Report

Botanical / Zoological Excursion

Department of Botany and Zoology

Place: Hazrafall and Kachargarh



Department of Botany and Zoology jointly organised study tour (Botanical / Zoological Excursion) on dated 24/01/2020 at 08am. Total 94 students from B.Sc.I,II,III year participated in tour. Hon. Principal Dr. A. S. Dwivedi and all staff members gathered in college to greet us.

Firstly we started our journey for Hazrafall which is 71km away from the Sadak Arjuni. We reached the destination at 10am. It is located in Salekasa tehsil of Gondia district. Hazrafall is a place with natural beauty having hilly area and dense forest. Forest is very rich in vegetation having variety of lower to higher plants species. Under the guidance of Prof. S. M. Akare, Head Department of Botany were studied various characteristics of plants in natural habitat.

During the Excursion we observed many lower plants like Algae (*Nostoc* spp., *Spirogyra*), Fungi (Mushrooms, Polyporous) Lichens (Fruticose, Foliose), Bryophytes (*Marchantia*, *Funaria*), Pteridophytes (*Glossopteris*, *Adiantum*, *Selaginella*), Insectivorous plants (*Nitella*) and many more.

We studied various Monocots, Dicots, Epiphytes (Vanda), Parasitic plants (Cuscuta) etc. Various timber yielding plants like *Tectona grandis*, *Dalbergia sisso*, *Azadirhachta indica*, *Terminalia tomentosa*, *Mangifera indica*, *Acacia* sp., etc. and various medicinal plants like *Andrographis paniculata*,

Azadirhachta indica, Butea, Aconitum, Adathoda, Cannabis, Carica, Croton, Embelica, Gymnema, Vinca, etc. were also observed.

Then we started our journey for Kachargarh situated in salekasa tehsil of Gondia district. It is a popular tourist destination because of the 25000 year old natural caves situated here. Here archaeologist found stone weapons were used by person of that era. It is situated in the dense forest and paradise for trekker, worshiping place for local tribal. It is rich in flora and fauna. Various plants like Algae, Fungi, Byophytes, Pteridophytes and Angiosperms are abundantly occurred.

Our study was very interesting, student participants interacted in very disciplined manner, cooperated well with the teachers guides and overall the tour was grand success. We realised that viewing the flora and fauna in its natural form made us things vivid enhancing classrooms lectures and laboratory experiments.





Photos of students during excursion

Prof. Sunil M. Akare
 Head, Department of Botany

Principal
 Manoharbhai Patel Arts, Commerce
 & Science College, Sadak Arjuni,
 Dist Gondia, Pin Code - 441807