

Study Tour Report

2023

HAJIPUR TO RAJGIR



DEPARTMENT OF BOTANY & BIOTECHNOLOGY

RAJ NARAIN COLLEGE, HAJIPUR, VAISHALI

B.R.A.BIHAR UNIVERSITY



B.Sc BIOTECHNOLOGY GROUP



M.Sc & B.Sc BOTANY GROUP

PREFACE

The present report is a compilation of the events, places visited & activities of an educational trip from Hajipur to Rajgir on 1st April 2023 by the Department of Botany & Biotechnology, R.N.College, Hajipur,B.R.A. Bihar University with the aim to aid the students acquire basic knowledge of NALANDA University & its history, different types of ecosystems including VENU VAN, GHORA KATORA and equip them with the experience about various culture so as to imbibe the society. In addition, the collection of different plants species of cryptogams as well as phanerogams required for making museum specimen, Herbarium & plant dissection purpose. Total 36 students were accompanied by the faculty members (3) from Botany & (2) from Biotechnology and non-teaching members (2) of the Department.

Faculty Members:-

PG Department of Botany

- 1. Dr. Rosline Soren (H.o.D)**
- 2. Mrs. Nitu Bharti**
- 3. Dr.Priyanka Chatterjee**
- 4. Arjun Prasad (Non teaching staff)**

Department of Biotechnology

- 1. Gaurav Kumar**
- 2. Aniket Kumar**
- 3. Deepak Kumar (Non teaching staff)**

Name of the students:-

M.Sc Botany:- 1. Ashit Raj 2. Shobha Kumari 3.Jaya Kumari 4.July Kumari 5.Sanjana Kumari 6. Kundan Kishore 7. Gargi Singh 8. Srishti 9. Priya 10. July Kumari-2, 11. Nitish Kumar 12. Priyanka Kumari

B.Sc Botany:- 1.Anamika Kumari Singh 2. Nidhi Kumari 3. Juhi Sakshi 4.Priya kumara 5. Anjali Kumari 6. Aradhya Gupta

B.Sc Biotechnology:- 1. Aditi 2. Amarjeet Kumar 3. Kumari Sakshi 4. Shristi Kumari 5. Anushka Kumari 6. Riya Kumari 7. Vaishnavi 8. Alok Kumar Singh 9. Beauty Kumari 10. Sonali Kumari 11. Tannu Kumari 12. Anamika Kumari 13. Shubhrashree 14. Sakshi 15. Ritika Kinkar 16. Apurwa Singh 17. Deepak Kumar 18. Sonal Minakshi

ACKNOWLEDGEMENT

On behalf of all the tour members, I Dr. Priyanka Chatterjee want to give special thanks to our Teacher-In-Charge and HoD of Botany Dr. Rosline Soren & entire team of educational trip in 2023. I extent sincere thanks to our Principal Dr. Ravi Kumar Sinha and our Bursar Dr. Khalid Hussain Siddiqui Sir for making it possible.

Dr. Rosline Soren (Dept of Botany)

Dr. Priyanka Chatterjee (Dept of Biotechnology)

(Tour incharges)

CONTENTS:

- 1. A Bus Journey To Remember**
- 2. Nalanda University**
- 3. Venu Van in Rajgir**
- 4. A Journey by E-Rickshaw from Rajgir to Ghora Katora Forest**
- 5. A Journey by E-Rickshaw from Rajgir to Ghora Katora Bird Sanctuary**
- 6. Ghora Katora Botanical Garden & Tortoise Hill**
- 7. Return Journey**
- 8. Documentation of Specimen collected**

TOUR REPORT OF DEPARTMENT OF BOTANY & BIOTECHNOLOGY

1. A BUS JOURNEY TO REMEMBER

All of we have started a journey on 1st April 2023 early in the morning at 5;30 am by AC bus from R.N.College campus including 36 students of M.Sc , B.Sc Botany & B.Sc Biotechnology Department 5 faculty members & 2 nonteaching staffs. During journey students were enjoyed very much & ultimately after 4 hours we reached in old ruins of Nalanda University.

2. NALANDA UNIVERSITY:

After exit from the bus we all entered into the gate of old Nalanda University and started to visit all the ruins of this University and taken photographs of plant species & also collected some plant specimen also, it includes Ajwan (*Trachyspermum ammi*), Afim plant (*Papaver somniferum*) & its seed as a medicinal use, taken photograph of matured fruits of Ficus (*Ficus benjamina*), Fennel plant (*Foeniculum vulgare*), different species of Cactus, Broken heart (*Monstera adansoni*) etc. After 2:30 pm we started journey for Rajgir.

FOLLOWING PHOTOGRAPHS SHOWING RUINS OF FIRST NALANDA UNIVERSITY



FIG -1-RUINS LECTURE ROOM & LIBRARY OF NALANDA UNIVERSITY



FIG-2



FIG-3



FIG-4-TAKING PHOTOGRAPH OF PLANT *Ficus racemosa*

3. VENU VAN IN RAJGIR

We reached Rajgir at near about 3:00 pm & entered into the Venu Van literally called Bamboo forest & Pilgrim of lord Buddha for knowing, identification, collection of different plant specimen for Herbarium & plant dissection purpose or for practical work. It is called Venu Van because it is surrounded by different species of Bamboo. It also contain other species of plant including Yellow coloured Thuja plant (Gymnosperm), Casuarina (Gymnosperm), rare varieties & different shapes of Cactus, Season flowers, *Rhododendron* (Angiosperm)etc, Children park, Different monuments of Buddha, different shila lekh of Buddha, holistic pond filled with big big fishes & Swans. Some of the students given chapaties to the Big fishes. After Venu Van we started a journey for Ghora Katora.





FIG-5- DIFFERENT BAMBOO VARIETIES IN VENU VAN AND DIFFERENT HERBS IN VENUVAN



FIG-6- BAMBOO SPECIES, PTERIDOPHYTES & SEEDLING OF GYMNOSPERM



FIG-7- BOTANICAL GARDEN IN VENU VAN



Fig-8-LAKE IN VENU VAN

4. A JOURNEY BY E-RICKSHAW FROM RAJGIR TO GHORA KATORA FOREST

We have taken E-Rickshaw and started journey for going different places of Ghora Katora under the forest zone of Ghora Katora and seen a number of rare plant species like Rudraksha (*Elaeocarpus angustifolius*), Teak (*Tectona grandis*), Sal (*Shorea robusta*) and some wild animals like fox (*Vulpes bengalensis*), Nil gai (*Boselaphus tragocamelus*), Mongoose (*Urva edwardsii*) etc.



FIG-9- PHOTOGRAPH TAKEN DURING FOREST JOURNEY OF GHORA KATORA

5. A JOURNEY BY E-RICKSHAW FROM RAJGIR TO GHORA KATORA BIRD SANCTUARY

In Ghora Katora bird sanctuary we have seen Lord Buddha statue in the middle of the lake & few birds & Swans.



FIG-10-BIRD SANCTUARY IN GHORA KATORA IN RAJGIR

6. GHORA KATORA BOTANICAL GARDEN AND TORTOISE HILL

We all visited Ghora katora botanical garden & seen Tortoise Hill & also collected some plant specimen of ornamental as well as flowering plants & different species of *Bougainvillea*.





FIG-11-BOTANICAL GARDEN AND TORTOISE HILL OF GHORA KATORA

7. RETURN JOURNEY

We all have taken lunch at 5:00 pm evening in one of the most famous restaurant name was Abhilasha of Rajgir & returned from Rajgir to Hajipur. We returned Hajipur at 9:00 pm night and all students safely reached their home by the support of our faculty members and nonteaching staff.

8. DOCUMENTATION OF SPECIMEN COLLECTED

During this journey we have collected some species of plant & taken photographs of plant species. Such species are Ajwan (*Trachyspermum ammi*), Afim plant (*Papaver somniferum*) & its seed as a medicinal use, Ficus (*Ficus benjamina*), Fennel plant (*Foeniculum vulgare*), different species of Cactus, Broken heart (*Monstera adansonii*), Different species of *Bougainvillea*, *Casuarina* etc.

