

Local Field Visit 2024

***ECOLOGICAL JOURNEY TO BIODIVERSITY PARK:  
RAJA N.L KHAN WOMEN'S COLLEGE, MIDNAPORE***

SEMESTER : II

Season 2023-2024

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Date: 20.02. 2024

Department of Botany

PANSKURA BANAMALI COLLEGE

(AUTONOMOUS )

PURBA MEDINIPUR-721152

**DATE:** 29 / 02 / 2024  
**TIME:** 8 AM to 5: 30 PM  
**NAME OF PLACE:** Raja N.L Khan Women's College, Medinipore  
**NUMBER OF STUDENTS:** 63

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# **INTRODUCTION :-**

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## **What is Education Excursion ?**

An education excursion is a supervised trip outside the classroom, designed to enrich student's learning experiences, promote interactive learning, and help them connect theoretical concepts to practical applications.

## **Relation with botany**

Botany excursions allow students to collect and identify plant specimens, conduct field experiments, and investigate plant adaptations, fostering practical skills and reinforcing theoretical concepts learned in the classroom.

## **Why Raja N.L Khan Women's College ?**

It is sanctioned by West Bengal Biodiversity Board in the year **2022-2023** ; therefore we choose it.

# Objectives of Excursion.

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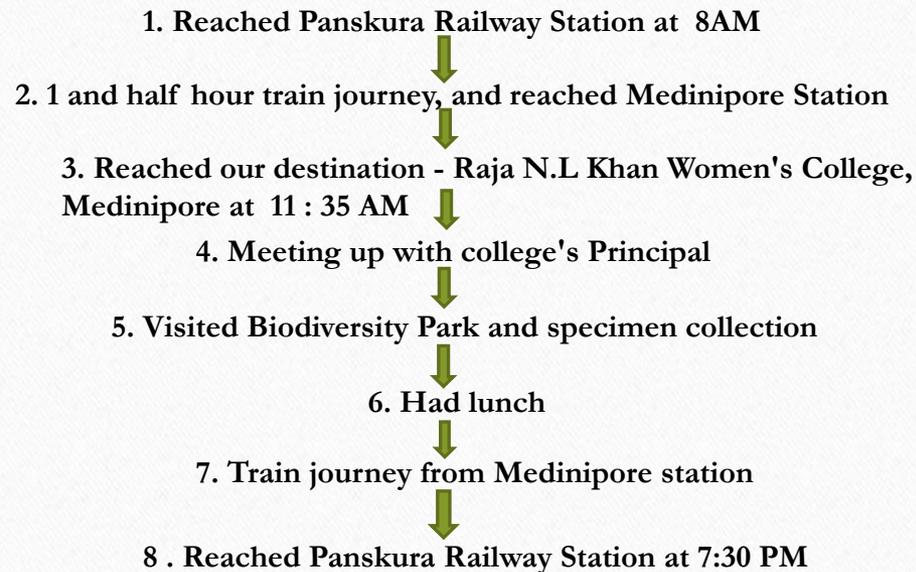
- **Observation and Exploration** : To observe and explore natural habitats, ecosystems, and plant species in their natural environment, fostering a deeper understanding of botanical concepts.

- **Practical Learning and Skill Development** : To develop practical skills in plant identification, collection, and preservation, as well as conduct field experiments and investigations.

- **Reinforcement of Theoretical Concepts** : To reinforce theoretical concepts learned in the classroom by providing hands-on experiences and real-world applications, promoting a better understanding and retention of botanical principles.

# TOUR FLOWCHART

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# COLLECTED SPECIMEN



## Plant Species of Medicinal Garden

Sl No	Local Name	Scientific name	Family
1	Lobongo	<i>Syzygium aromaticum</i> (L.)M & L.M.Perry	Myrtaceae
2	Aswagandha	<i>Withania somnifera</i> (L.) Dunal (W. Somnifera)	Solanaceae
3	Gurmar	<i>Gymnema sylvestre</i> R. Br	Asclepiadaceae
4	Lal Basak	<i>Phlogacanthus thyrsoformis</i> (Roxb. ex Hardw )	Acanthaceae
5	Foxtail Palm	<i>Wodyetia bifurcate</i> A.K. Irvine	Arecaceae
6	Bisalyakarani	<i>Justicia gendarussa</i> Burm. f.	Acanthaceae
7	Nerve Plant	<i>Fittonia sp</i>	Acanthaceae
8	Shiv Jata	<i>Acalypha hispida</i> Burm . f	Euphorbiaceae
9	Ghrita Kumari	<i>Aloe vera</i> ( L.) Burm. F	Liliaceae
10	Elach	<i>Elettaria cardamomum</i> (L.) Maton	Zingiberaceae
11	Dalchini	<i>Cinnamomum verum</i> J. Presl	Lauraceae

## Plant Species of Butterfly Garden

Sl No	Local Name	Scientific Name	Family
1	Rangan	<i>Ixora coccinea</i> L.	Rubiaceae
2	Akanda	<i>Calotropis procera</i> (Aiton) W.T.Aiton	Asclepiadaceae
3	Patilebu	<i>Citrus aurantiifolia</i> (Christm.) Swingle	Rutaceae
4	Karipata	<i>Murraya koenigii</i> (L.) spreng	Rutaceae
5	Karabi	<i>Nerium oleander</i> L.	Apocynaceae
6	Kul	<i>Ziziphus mauritiana</i> Lam.	Rhamnaceae
7	Devdaru	<i>Polyalthia longifolia</i> (Sonn.) Benth. & Hook.f. ex Thwaites	Annonaceae
8	Bhut bhairabi	<i>Lantana camara</i> L. (sensu lato)	Verbenaceae
9	Joba	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae
10	Hasnubana	<i>Cestrum nocturnum</i> L.	Solanaceae
11	Beli	<i>Jasminum sambac</i> (L.) Aiton	Oleaceae
12	Tagar	<i>Tabernaemontana divaricata</i> R.Br. ex Roem. & Schult.	Apocynaceae



- *Vitis vinifera* L.  
(Angoor)
- *Syzygium aromaticum* (L.) Merr. & L.M.Perry (Lobongo)



# **FUNGAL DIVERSITY IN YOUR LOCALITY**

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### *Specimen No 1*

**Name :** *Ascobolus* sp.

**Habitat :** Coprophilous

**Habit :** Small; pale to yellow; cup shaped; smooth & slightly rounded.

**Location :** Laskardighi, Purba Medinipur

**Date of collection :** 14/05/24

**Environmental Parameters :**

- **Light** – 80%
- **Temperature** – 30° C – 35° C
- **Humidity** – 85%



### *Specimen No 2*

**Name :** *Lycoperdon* sp.

**Habitat :** Saprophytic, grows on soil.

**Habit :** Small; white to cream; globose & rough structure.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 01/07/24

**Environmental Parameters :**

- **Light** – 85%
- **Temperature** – 28° C – 35° C
- **Humidity** – 87%



### *Specimen No 3*

**Name :** *Gymnopilus* sp.

**Habitat :** Saprophytic, grows on dead wood.

**Habit :** Medium; bright orange; slightly rounded with fine scales.

**Location :** Laskardighi, Purba Medinipur.

**Date of Collection :** 10/05/24

**Environmental Parameters :**

- **Light** – 82%
- **Temperature** – 30°C - 35°C
- **Humidity** – 70%



### *Specimen No 4*

**Name :** *Lichenomphalia umbellifera*

**Habitat :** Symbiotic association with algae ( Lichen)

**Habit :** Convex; central depression; off white; smooth; thin & slightly straited

**Location :** Laskardighi, Purba Medinipur

**Date of Collection :** 04/07/24

**Environmental Parameters :**

- **Light** – 85%
- **Temperature** – 28°C -37°C
- **Humidity** – 82%



### ***Specimen No 5***

**Name :** *Chorophyllum* sp.

**Habitat :** Saprophytic, grows on organic matter

**Habit :** Large; white with fibrous scale at center.

**Location :** Krishornagar, Paschim Medinipur.

**Date of Collection :** 02/07/24

**Environmental Parameters :**

- **Light** – 87%
- **Temperature** – 28°C -37°C
- **Humidity** : 89%



### ***Specimen No 6***

**Name :** *Lentinus* sp.

**Habitat :** Saprophytic, grows on dead wood.

**Habit :** Funnel shape ; white & smooth.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of Collection:** 24/06/24

**Environmental Parameters :**

- **Light** – 82%
- **Temperature** – 28°C -35°C
- **Humidity** – 83%



***Specimen No 7***

**Name :** *Rasula* sp.

**Habitat :** Saprophytic, grows on tree trunk.

**Habit :** Large; white; smooth & flat upper portion.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 24/06/24

**Environmental Parameters :**

- **Light** – 82%
- **Temperature** – 29°C – 35°C
- **Humidity** – 83%



***Specimen No 8***

**Name :** *Rasula* sp.

**Habitat :** Saprophytic, grows on soil.

**Habit :** Flat; tan or off white; radially straited; fragile & thin.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 01/07/24

**Environmental Parameters :**

- **Light** – 85%
- **Temperature** – 28°C – 35°C
- **Humidity** – 87%



***Specimen No 9***

**Name :** *Marasmius* sp.

**Habitat :** Saprophytic, grows on organic matter.

**Habit :** Slightly raised bump shaped; orange; small ; smooth & fragile.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 01/07/24

**Environmental Parameters :**

- **Light** – 85%
- **Temperature** – 28°C – 35°C
- **Humidity** – 87%



***Specimen No 10***

**Name :** *Auricularia* sp.

**Habitat :** Saprophytic, grows on dead wood.

**Habit :** Irregular shape; brown; soft; slimy & wavy.

**Location :** Krishornagar, Paschim Medinipur.

**Date of collection :** 02/07/24

**Environmental Parameters :**

- **Light** – 87%
- **Temperature** – 28°C – 37°C
- **Humidity** – 89%



***Specimen No 11***

**Name :** *Chlorophyllum* sp.

**Habitat :** Saprophytic grows on dead wood.

**Habit :** Small; slightly smooth & white.

**Location :** Panskura Banamali College  
(Autonomous) , Purba Medinipur

**Date of collection :** 24/06/24

**Environmental Parameters :**

- **Light** – 82%
- **Temperature** – 29°C – 35°C
- **Humidity** – 83%



***Specimen No 12***

**Name :** *Xylaria* sp.

**Habitat :** Saprophytic grows on organic matter.

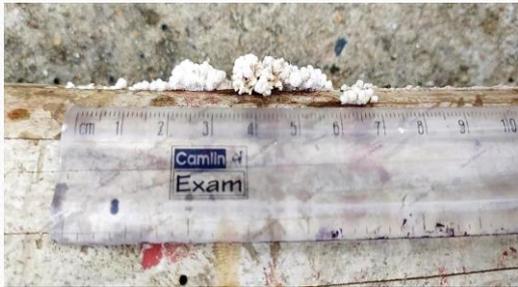
**Habit :** Small; cylindrical with branching; scaly;  
matte; black & white.

**Location :** Panskura Banamali College  
(Autonomous) , Purba Medinipur

**Date of collection :** 02/07/24

**Environmental Parameters :**

- **Light** – 87%
- **Temperature** – 28°C – 37°C
- **Humidity** – 89%



***Specimen No 13***

**Name :** *Resupinatus* sp.

**Habitat :** Saprophytic, grows on dead bamboo.

**Habit :** Small; white; smooth; dry; irregular shape.

**Location :** Madpur Railway station Road, Paschim Medinipur.

**Date of collection :** 29/06/24

**Environmental Parameters :**

- **Light** – 80%
- **Temperature** – 30°C - 33°C
- **Humidity** – 85%



***Specimen No 14***

**Name :** *Marasmius* sp.

**Habitat :** Saprophytic, grows on dead tree trunk.

**Habit :** Small; brown; smooth; slightly rounded.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 01/07/24

**Environmental Parameters :**

- **Light** – 85%
- **Temperature** – 28°C - 35°C
- **Humidity** – 87%



***Specimen No 15***

**Name :** *Podoscypha petalodes*

**Habitat :** Saprophytic, grows on dead tree trunk.

**Habit :** Slightly wavy; small; pale cream; smooth & slightly wrinkled.

**Location :** Panskura Banamali College ( Autonomous) , Purba Medinipur.

**Date of collection :** 01/07/24

**Environmental Parameters :**

- **Light** – 85%
- **Temperature** – 28°C – 35°C
- **Humidity** - 87%

# **ALGAL DIVERSITY IN VARIOUS HABITAT**

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### *Specimen No 1*

**Name :** *Aphanothece* sp.

**Habitat :** Typically found in wetland areas

**Habit :** Colonial; photosynthetic & freely floating.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%



### *Specimen No 2*

**Name :** *Pithophora* sp.

**Habitat :** It thrives in shallow ponds with low flow.

**Habit :** Large; green; branched filamentous; forms dense & freely floating mats.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%



### *Specimen No 3*

**Name :** *Lyngbya* sp.

**Habitat :** Grow on moist soil.

**Habit :** Blue - green; filamentous; photosynthetic; thick & mat forming.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%



### *Specimen No 4*

**Name :** *Chlorococcum* sp. & *Physolinum* sp.

**Habitat :** Terrestrial, grow on moist surface.

**Habit :** Green; colonial; photosynthetic & presence of thin layer mucilage.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%



### *Specimen No 5*

**Name :** *Scytonema* sp.

**Habitat :** Terrestrial & epiphytic; grows on the bark of tree.

**Habit :** Dark green; photosynthetic & appearance with irregular clusters.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%



### *Specimen No 6*

**Name :** *Scytonema* sp. & *Phormidium* sp.

**Habitat :** Terrestrial, grows on moist soil.

**Habit :** Jungle green; colonial; photosynthetic; thick & leathery.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%

# BRYOPHYTE

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***Specimen No 1***

**Name :** *Fissidens* sp.

**Habitat :** Terrestrial, grows on moist & shaded areas.

**Habit :** Dark–green; feathery & flattened appearance with small densely packed leaves.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%



***Specimen No 2***

**Name :** *Semibarbula* sp.

**Habitat :** Terrestrial; found in moist & shaded environment.

**Habit :** Bright–green; small leaves which forms dense & cushion like mats or tufts.

**Location :** Panskura Banamali College (Autonomous) , Purba Medinipur

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%

# PTERIDOPHYTE

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**Specimen No 1**

**Name :** *Christella dentata* (Forssk.) Brownsey & Jermy

**Habitat :** Grows in moist, well-drained & loamy soil.

**Habit :** Vibrant green; herbaceous fronds; presence of slender & smooth rachis.

**Location :** Panskura Banamali College (Autonomous), Purba Medinipur.

**Date of collection :** 06/08/24

**Environmental Parameters :**

- Light – 70%
- Temperature – 27°C
- Humidity – 94%



**Specimen No 2**

**Name :** *Pteris vittata* L.

**Habitat :** Grows in partially shaded rocky environment.

**Habit :** Tall; simple green pinnate leaves with scaly stipe.

**Location :** Panskura Banamali College (Autonomous), Purba Medinipur.

**Date of collection :** 06/08/24

**Environmental Parameters :**

- Light – 70%
- Temperature – 27°C
- Humidity – 94%



### ***Specimen No 3***

**Name :** *Lygodium japonicum* (Thunb.) Sw.

**Habitat :** Grows in moist, well-drained & loamy soil.

**Habit :** Bright green; long & lacy fronds; slender & wiry stem; presence of numerous leaflets.

**Location :** Panskura Banamali College (Autonomous), Purba Medinipur.

**Date of collection :** 06/08/24

**Environmental Parameters :**

- **Light** – 70%
- **Temperature** – 27°C
- **Humidity** – 94%

# COMMENT

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- This ecological journey provided invaluable insights into the intricate relationships within ecosystems and the vital role of biodiversity. Observing various plants, algae, bryophytes, and pteridophytes at the biodiversity park deepened our understanding of nature's interdependence and the impact of human activities on the environment. It also helped us better comprehend our relationship with nature and biodiversity.
- The journey emphasized the importance of conservation and sustainable practices. It reminded us that our actions directly influence ecological balance, which is essential for a healthy planet. The knowledge and experiences gained from this ecological journey will guide us toward a better and more sustainable future, encouraging us to adopt more responsible behaviors and commit to preserving nature for generations to come.

**THANK YOU**