

Shri Shivaji Education Society Amravati's Science College

Congress Nagar, Nagpur

Department of Botany

Study Tour Report 2024-2025

10/01/2025

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## REPORT

Field study is an essential part of Botany as it provides students with the opportunity to interact with plants in their natural habitat, enhancing their understanding of plant ecology, morphology, and economic uses. As part of the B.Sc. Curriculum, the Department of Botany organized a one-day educational tour on 10th January 2025 to the following locations: Umri Forest in Soaner Taluka, Nagpur District; Kapleshwar Temple in Kelwad Village, Nagpur District; Sawali Forest in Soaner Taluka, Nagpur District; and the TATA Power Solar Plant located at MIDC, Mohape Road, Nagpur. The objective of the tour was to explore the region's flora, study their ecological significance, and understand renewable energy solutions.

The tour included 55 students, accompanied by 6 teaching staff and 3 non-teaching staff, under the supervision of Dr. R. P. Sonwalkar (Tour Incharge) and Dr. P. S. Tiwari (Head of Department).

The main aims and objectives of the tour were to observe and document plant species in their natural habitat, study their morphology, habitat, and economic uses, gain practical knowledge of renewable energy solutions at the TATA Power Solar Plant, and promote awareness of biodiversity conservation and sustainability.

The tour began with a visit to Umri Forest, located in Soaner Taluka, Nagpur District, approximately 51.4 km from Nagpur, with an elevation of 329 meters above sea level. The forest, with a temperature of 29°C and humidity of 60%, is home to a variety of plant species such as Spinach (*Spinacia oleracea*), Lemon (*Citrus limon*), Neem (*Azadirachta indica*), and Sage Glory Bower (*Clerodendrum phlomidis L.*). During the visit, students observed a rich diversity of cultivated and wild plants, collecting various plant samples and documenting their characteristics.

The next destination was the Kapleshwar Temple, located in Kelwad Village, Soaner Taluka, approximately 48.6 km from Nagpur. This Lord Mahadev temple is situated near a small river, with large trees surrounding it, including an ancient banyan tree with sprawling branches. The temple is a popular spiritual and tourist site, frequently visited by locals and travelers.

Following this, the students visited Sawali Forest, located 37.8 km from Nagpur in Soaner Taluka. The forest hosts a diverse range of flora and fauna. Some of the plant species documented include Banana (*Musa balbisiana* × *Musa acuminata*), Banana flower (*Cavendish banana*), Club Mangrove (*Aegialitis annulata*), and Common Bamboo (*Bambusa vulgaris*). Teachers and students actively documented the plant species, enhancing their field knowledge.

The final destination was the TATA Power Solar Plant, located at D-1, MIDC, Mohape Road, Umri-441203, Nagpur. The plant offers solar energy solutions for homes and businesses, including solar rooftop systems, solar power plants, and solar panel installation services. 0Students gained insights into solar technology, its impact on sustainability, and its practical applications in daily life.

### Flora of the Region

During the tour, the students observed and documented various plant species, including trees, shrubs, herbs, and grasses. The following table lists the common and botanical names of the prominent species identified:

Common Name	Botanical Name	Family	Habitat
Neem	<i>Azadirachta indica</i>	Meliaceae	Forest areas
Banyan Tree	<i>Ficus benghalensis</i>	Moraceae	Near temples
Spinach	<i>Spinacia oleracea</i>	Amaranthaceae	Cultivated fields
Lemon	<i>Citrus limon</i>	Rutaceae	Farms and fields
Sage Glory Bower	<i>Clerodendrum phlomidis L.</i>	Lamiaceae	Forest fringes
Bamboo	<i>Bambusa vulgaris</i>	Poaceae	Forest patches
Mango	<i>Mangifera indica</i>	Anacardiaceae	Farm peripheries
Banana	<i>Musa balbisiana</i> × <i>M. acuminata</i>	Musaceae	Cultivated areas
Club Mangrove	<i>Aegialitis annulata</i>	Plumbaginaceae	Wetlands
Tulsi (Holy Basil)	<i>Ocimum sanctum</i>	Lamiaceae	Temple surroundings
Wild Marigold	<i>Tagetes minuta</i>	Asteraceae	Roadsides and fields
Custard Apple	<i>Annona squamosa</i>	Annonaceae	Farms and forest edges
Flame of the Forest	<i>Butea monosperma</i>	Fabaceae	Forested areas

Mahua

*Madhuca indica*

Sapotaceae


Dry deciduous forests

Date: 28/12/2024

**Shri Shivaji Education Society Amaravati's  
Science College, Congress Nagar, Nagpur**

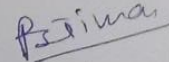
**Notice**

All the students of B.Sc Sem – I , III Vth , M.Sc I &II are hereby informed that, Department of Botany will be organizing Short Excursion tour to visit Umri Forest, Kapleshwar, Sawali Jungle, as a part of your curriculum on dated 11/01/2025 to explore the flora in their natural habitat. All information will be provided to the students (respective groups) and they are informed to give their names on or before 04/01/2025 to Dr. Reshma P.Sonwalkar (8007684196).



Tour In-charge

Dr. Reshma P.Sonwalkar



Head

Prof. P.S.Tiwari

Shri Shivaji Education Society, Amravati's  
**SCIENCE COLLEGE**  
 CONGRESS NAGAR, NAGPUR-400012,  
 Department of Botany

Attendance Sheet

Sr. No.	STUDENT NAME	Age	Signature	Declaration submitted
1.	AARCHI RAMKISHOR SANODIYA	18	<i>A Sanodiya</i>	
2.	AASHI ASHOK KAROSIYA	19	<i>A Karosiya</i>	
3.	BHUMIKA MAHESH GOUR	18	<i>B Gour</i>	
4.	HARSHALI VILASRAO THAWARE	19	<i>H Thaware</i>	
5.	HIMANSHI CHANDRASHEKAR SHIV	18	<i>H Shiv</i>	
6.	JANVI CHANDRASHEKHAR WASAKE	18	<i>J Wasake</i>	
7.	MUGDHA PURUSHOTTAM GOLE	18	<i>M Gole</i>	<i>M Gole</i>
8.	RAVNEET KAUR KULWANT SINGH CHANIANA	18	<i>Ravneet</i>	<i>Ravneet</i>
9.	RISHIKA KAMALKISHOR CHACHADA	18	<i>R Chachada</i>	
10.	RUDRAKSHI AMIT BHONGADE	18	<i>R. Bhongade</i>	
11.	SAISHA NANDKISHOR GURALWAR	19	<i>S. N. Guralwar</i>	<i>S. N. Guralwar</i>

12	SANIKA GIRISH KAWADKAR	18	<i>S Kawadkar</i>	
13	SANSKRUTI OMPRAKASHI CHAVHAN	18	<i>S Chavhan</i>	<i>S Chavhan</i>
14	SAPNA HARISH MISHRA	18	<i>S Mishra</i>	
15	SHRAVANI RAVINDRA RAUT	18	<i>S Raut</i>	
16	SNEHAL MANOJRAMA KHOBRADE	19	<i>S Khobrade</i>	
17	TEJASHRI BHAKTADAS MULE	19	<i>T Mule</i>	
18	TRUPTI SUDHIR BURANDE	18	<i>T Burande</i>	
19	UMESHA HIRALAL RAUT	18	<i>U Raut</i>	<i>U Raut</i>

Shri Shivaji Education Society, Amravati's  
**SCIENCE COLLEGE**  
 CONGRESS NAGAR, NAGPUR-400012,  
 Department of Botany

Attendance Sheet

			Sign	DECLARATION, Sub
20	VARSHA LEKHIRAM DONGRE	18	<i>Varsha</i>	<i>Varsha</i>
21	DHANANJAY AJITRAO KADWE	18	<i>Dhananjay</i>	
22	GAGAN SURAJLAL NAGVANSHI	18	<i>Gagan</i>	
23	TANMAY CHANDRAKANT POWANWAR	18	<i>Tanmay</i>	
24	SHAKSHI SHENDE	18	<i>Shakshi</i>	<i>Shakshi</i>
25	GAYTRI UIKEY	20	<i>Gayatri</i>	<i>Gayatri</i>
26	VIDYA VIKEY	19	<i>Vidya</i>	<i>Vidya</i>
27	MANISH DEHANKAR	20	<i>Manish</i>	<i>Manish</i>
28	SNAGITA SUTAR	20	<i>Snagita</i>	<i>Snagita</i>
29	GAUTRI BHISE	19	<i>G. K. Bhise</i>	<i>G. K. Bhise</i>
30	SHREYA WANKHDE	20	<i>Shreya</i>	<i>Shreya</i>
31	DEEPAR VADERA	20		
32	PARDHNYA WASNIK	19	<i>Pardhny</i>	<i>Pardhny</i>
33	AWANTIKA SONKUWAR	20	<i>Awantika</i>	<i>Awantika</i>
34	SAMIKSHA TIRPUDE	20	<i>Samiksha</i>	<i>Samiksha</i>
35	SAMYAK RANGARI	19	<i>Samyak</i>	
36	BHUVNESH BANSODE	20	<i>Bhuvnesh</i>	
37	AMIT SHINDE	20	<i>Amit</i>	

### Action Taken Report

Following the **educational tour** conducted on **10th January 2025** by the **Department of Botany**, several actions were taken based on observations and student experiences. During the tour, students **collected different plant specimens and twigs** for the **preparation of herbarium**, which will be used as a reference for future botanical studies. The **plant species documented** during the tour were incorporated into the **practical curriculum**, allowing students to deepen their understanding of local flora through hands-on lab sessions. The department also decided to **collaborate with renewable energy agencies**, inspired by the visit to the **TATA Power Solar Plant**, to provide students with real-world insights into **sustainable energy solutions**. Overall, the tour successfully strengthened the students' **practical**

**knowledge**, enhanced their **field observation skills**, and fostered a deeper interest in **plant conservation** and sustainable practices.

### Feedback Form

#### Tour Feedback Form – Study Tour 2024-2025

Please rate the following aspects of the tour:

**10th January 2025**

1. **Organization and Planning:** ○

Excellent

○ Better 4.

○ Good

2. **Tour Guides' Knowledge and Expertise:** ○

Excellent

○ Better ○

Good

3. **Transportation and Travel Arrangements:**

○ Excellent

○ Better ○

Good

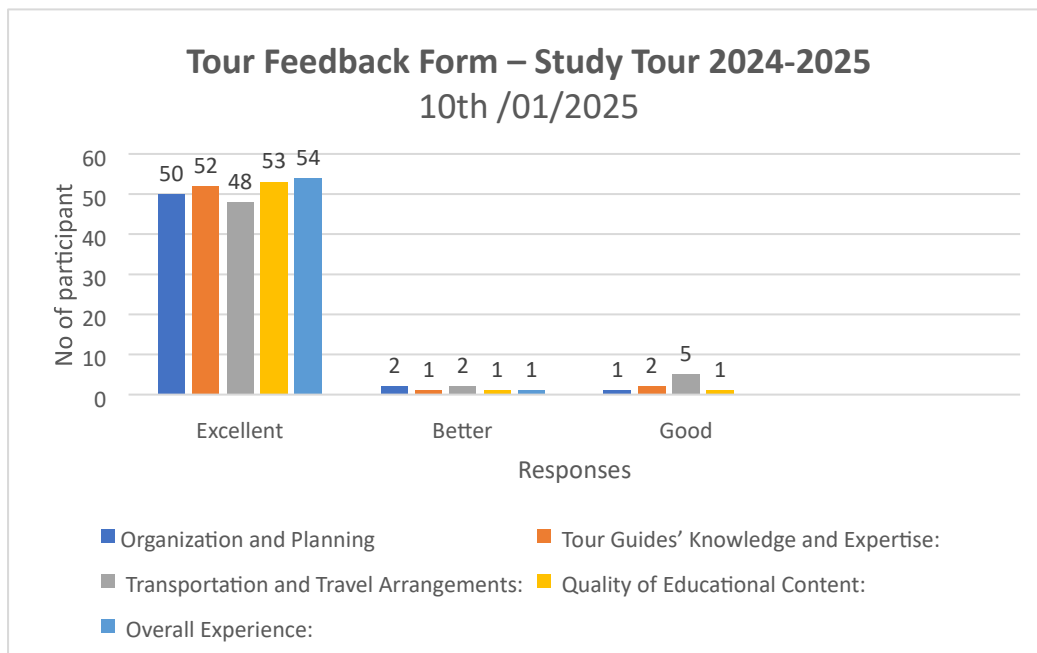
**Quality of Educational Content:**

5. ○ Excellent ○ Better ○ Good

**Overall Experience:**

○ Excellent ○

Better ○ Good





*Azadirachta indica*



*Citrus limon*

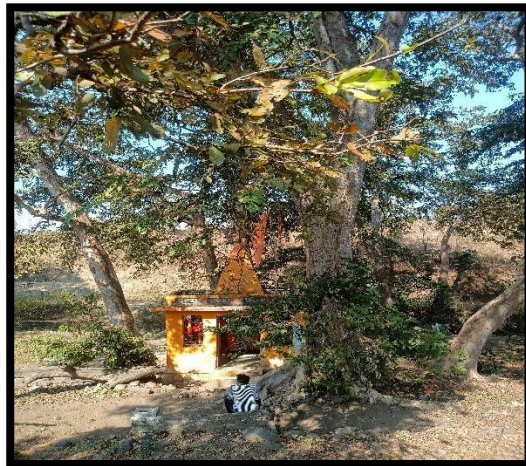
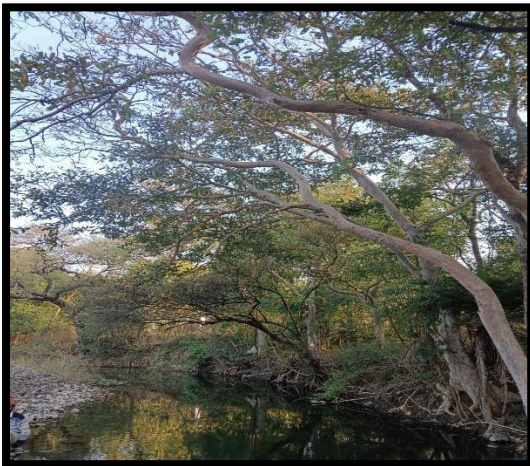


Sage Glory Bower - *Clerodendrum phlomidis* L.



*Bambusa vulgaris*









*Reshma*

**Dr. Reshma P. Sonwalkar**  
**Tour Incharge**

Assistant Professor  
Department of Botany  
SSES Am's Science College,  
Congress Nagar, Nagpur-12.



*Pstima*

**Prof. P.S. Tiwari**  
**HOD**

Professor and Head  
Department of Botany,  
SSES Am's Science College,  
Congress Nagar, Nagpur-12