

Date: 04/02/2026

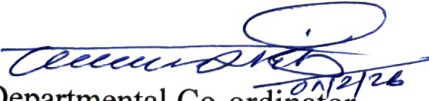
To,
The Principal,
Annasaheb Waghire College of Arts Science
and Commerce, Otur, Dist. Pune-412409.

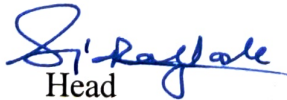
Dear sir,


As per the NEP 2020 syllabus of F.Y.B.Sc. and S.Y.B.Sc. Botany prescribed by SPPU, Pune; a visit to natural vegetation is necessary. In this regard, a visit of F.Y.B.Sc. and S.Y.B.Sc. students is being planned to organize at **Khireswar** on **Wednesday 11th February 2026 by bus, under the DBT-STAR College Scheme**. Kindly grant the permission for the same.

Thanking You.

Yours faithfully,


Departmental Co-ordinator
DBT-STAR College Scheme


Head
Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune


Overall Co-ordinator
DBT-STAR College Scheme
PRINCIPAL
Annasaheb Waghire Science, Arts &
Commerce College, Otur,
Tal. Junner, Dist. Pune - 412 409

Pune District Education Association's
**ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**

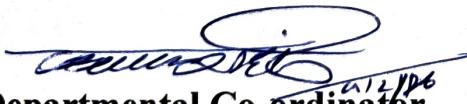
Department of Botany
(A.Y.-2025-26)

Date: 04/02/2026

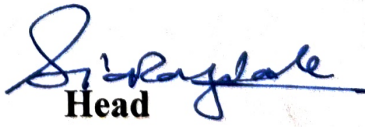
NOTICE

All students from F.Y.B.Sc. having Botany and S.Y.B.Sc. Minor Botany are hereby notified that Department of Botany have organized a “**Botanical Study Tour to Khireswar**” on **Wednesday 11th February 2026 under the DBT-STAR College Scheme**. It is mandatory to all student to participate in the tour and submission of tour report, as a part of syllabus requirement. So, all student from F.Y.B.Sc. and S.Y.B.Sc. should register their names for the tour in Botany department till 09/02/2026.

All students should present at A.W. College, Otur on 11/02/2026 at 7:45 am, with lunch box, water bottle, Identity card, note book, pen and other essentials.


Departmental Co-ordinator
DBT-STAR College Scheme


Overall Co-ordinator
DBT-STAR College Scheme


Head
Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune


Principal
PRINCIPAL
Annasaheb Waghire Science, Arts &
Commerce College, Otur,
Tal. Junner, Dist. Pune - 412 409



Botanical Study Tour to Khireswar

Date: 11/02/2026 - 11/02/2026

No of Students: 19 Male: 5, Female: 14 No of Teachers: 2 Male: 2, Female: 0

Brief Report:

Location: Khireswar, Junnar Taluka, Pune District

Altitude: Approximately 650m to 800m above MSL

Vegetation Type: Southern Tropical Moist Mixed Deciduous Forest

1. Introduction

A one-day botanical study tour was conducted at **Khireswar**, situated at the base of the historic Harishchandragad fort. This region, part of the northern Western Ghats (a global biodiversity hotspot), offers a rich tapestry of floral diversity ranging from riparian vegetation to scrub and moist deciduous species. The primary objective was to observe plant diversity in their natural habitat and understand the ecological associations of the Sahyadri ranges. In this context botanical study tour of FYBSc and SYBSc Botany students was organized.

2. Objectives

- To identify and document the local flora.
- To study the morphological adaptations of plants in the Western Ghats.
- To observe the impact of seasonal changes on the local vegetation.
- To understand the ethnobotanical importance of plants used by local communities.

3. Observations and Floral Diversity

The flora of Khireswar is characterized by a high degree of endemism. During the trail, the following categories of plants were documented:

A. Tree Species

The canopy is dominated by sturdy species that can withstand heavy monsoon rains and dry summers.

- **Terminalia bellirica (Beheda):** Observed for its medicinal fruit.
- **Terminalia chebula (Hirda):** Frequent in the higher reaches.
- **Memecylon umbellatum (Anjan):** Notable for its tough, leathery leaves and bright blue flowers.
- **Syzygium cumini (Jambhul):** Found primarily near water streams (riparian zones).

B. Shrubs and Herbs

- **Carissa karandas (Karvanda):** A common thorny shrub used for bio-fencing.
- **Mesosphaerum suaveolens (Wilayati Tulsi):** An aromatic herb observed along the trail edges.
- **Strobilanthes callosa (Karvi):** Though not in its mass-flowering cycle, the woody shrubs were abundant, dominating the understory.

C. Specialized Flora

- **Epiphytes:** Various *Orchidaceae* species were observed on the trunks of old trees, showcasing adaptations for moisture absorption from the air.
- **Pteridophytes:** Ferns such as *Adiantum* (Maidenhair fern) were found in the moist, shaded crevices of rocks near the base of the fort.

4. Ethnobotanical Significance

Interactions with the local community and observation of the landscape revealed several plants of economic and medicinal importance:

- **Wild Edibles:** Many local trees provide fruits that are a source of income for the tribal populations.
- **Medicinal Uses:** Species like *Asparagus racemosus* (Shatavari) were noted for their traditional use in Ayurvedic medicine.

5. Ecological Observations

The area showed distinct **zonation**. Near the Khireswar dam and streams, the vegetation is lush and green (Riparian), while further up the slopes toward the Harishchandragad trail, the plants show more **xerophytic** characteristics, such as reduced leaf surface area and thorny structures, to conserve water during the pre-monsoon heat.

6. Conclusion

The botanical excursion to Khireswar provided invaluable practical insights into the complex ecosystems of the Western Ghats. The diversity of species from the towering *Terminalia* to the delicate ferns highlights the need for continuous conservation efforts in this region. This study tour helped bridge the gap between classroom taxonomy and field-based ecology.

Guests: 0

Supporting agency: Department of Biotechnology, STAR College Scheme

Photos



1: Students observing grassland vegetation

News Reports

S. R. Rajgale
DEPARTMENT OF BOTANY
A. W. College of Science, Arts & Commerce
OTUR Dist. Pune

Annasaheb Waghire
Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

**Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**

**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

One Day Educational Tour to Khireswar

Date: 11/02/2026

ATTENDANCE: F.Y.B.Sc.

Sr. No.	Name of the student	Sign	
		Start	Return
1.	Ambhere Harshal Vishnu	H.V. Ambhere	H.V. Ambhere
2.	Bansode Sonali Santosh		
3.	Bhale Avinash Balasaheb	Bhale A.B	Bhale A.B
4.	Bhaurale Pratiksha Sakham	P.S. Bhaurale	P.S. Bhaurale
5.	Dherange Shubham Appasaheb	S. Dherange	S. Dherange
6.	Dherange Vaishnavi Popat	V.P.D.	V.P.D.
7.	Dumbre Aniket Gitaram	A. Gitaram	A. Gitaram
8.	Gijare Monika Govind	Gijare	Gijare
9.	Gode Shruti Ulhas	Shruti	Shruti
10.	Hilam Alisha Balu		
11.	Joshi Nisha Tukaram	Bhij.	Bhij.
12.	Khamkar Pratiksha Yashwant	Pratiksha	Pratiksha
13.	Khandagale Sanchita Haribhau	Khandagale.	Khandagale.
14.	Memane Pooja Umaji	P.U. memane	P.U. memane
15.	Nalawade Samruddhi Prabhakar		
16.	Padir Tanishka Pravin	Tanishka	Tanishka
17.	Pophale Vishal Devidas	Vishal	Vishal
18.	Shingote Akshada Santosh	A.S.S	A.S.S
19.			


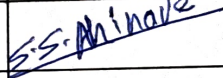

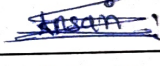




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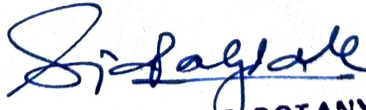
Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)


One Day Educational Tour to Khireswar

Date: 11/02/2026

ATTENDANCE: S.Y.B.Sc.

Sr. No.	Name of the student	Sign	
		Start	Return
1.	Ahinave Shraddha Suresh		
2.	Ansari Shabana Tayyab		
3.	Dharade Varsha Gangaram		
4.	More Rutik Pradip		
5.	Umbare Ravindra Chandrakant		
6.			


DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune


Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

Pune District Education Association's
**ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**

Department of Botany
(A.Y.-2025-26)

Date: 14/08/2025

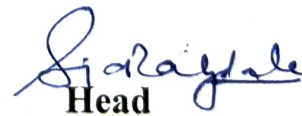
NOTICE

All students from F.Y.B.Sc. having Botany and S.Y.B.Sc. Minor Botany are hereby notified that Department of Botany have organized a “**Botanical Study Tour to Naneghat**” on **Tuesday 19th August 2025** under the **DBT-STAR College Scheme**. It is mandatory to all student to participate in the tour and submission of tour report, as a part of syllabus requirement. So, all student from F.Y.B.Sc. and S.Y.B.Sc. should register their names for the tour in Botany department till 16/08/2025.

All students should present at A.W. College, Otur on 19/08/2025 at 7:45 am, with lunch box, water bottle, Identity card, note book, pen and other essentials.



**Departmental Co-ordinator
DBT-STAR College Scheme**



**Department of Botany
DEPARTMENT OF BOTANY
College of Science Arts & Commerce
Otur, Dist. Pune**



**Overall Co-ordinator
DBT-STAR College Scheme**



**Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)**



One Day Botanical Study Tour to Naneghat and Adjoining Area

Date: 19/08/2025 - 19/08/2025

No of Students: 21 Male: 7, Female: 14 No of Teachers: 2 Male: 2, Female: 0

Brief Report:

Location: Naneghat (Western Ghats), Junnar, Maharashtra

Objective: To aware the students of FYBSc and SYBSc through field study of diverse floral biodiversity, ecological adaptations, and ethnobotanical significance of the Northern Western Ghats.

1. Introduction

Naneghat, a historic mountain pass in the Sahyadri range, serves as a vital ecological corridor. Located at an altitude of approximately 838 meters, it bridges the Konkan coast and the Deccan plateau. This unique geography creates a microclimate that supports a rich variety of moist deciduous and semi-evergreen vegetation, making it an ideal site for botanical observation.

2. General Vegetation Profile

The vegetation at Naneghat is characterized by high endemism. During the trek from the base to the plateau, several distinct layers of flora were observed:

- **Tree Canopy:** Dominated by hardy species capable of withstanding heavy monsoon winds.
- **Shrub Layer:** Rich in medicinal and flowering plants.
- **Lithophytes:** Numerous species found growing directly on the rock faces of the ancient pass.

3. Key Botanical Observations

A. Adaptation to High Wind and Rocky Terrain

Many plants in the Naneghat region exhibit **Xerophytic** adaptations to survive the dry winters, despite the heavy monsoons. Observations included:

- **Succulent stems** in species like *Euphorbia*.
- **Waxy leaf coatings** to reduce transpiration.
- **Deep taproot systems** to anchor in rocky crevices.

B. The Naneghat Flora

The plateau area is home to various ephemeral herbs. While peak blooming occurs post-monsoon, the study identified several perennial species and dormant tubers.

- **Orchids:** Several epiphytic orchids were spotted on the trunks of old *Mimosa umbellata* (Ironwood) trees.
- **Ferns:** Found in the shaded, moist crevices of the rock-cut caves.

4. Ethnobotanical Significance

Discussions with local guides highlighted the traditional use of local flora:

1. **Medicinal:** Use of *Terminalia belerica* (Hirida) for respiratory ailments.
2. **Cultural:** Many species are used in local deities worship and traditional festivals.
3. **Livelihood:** Collection of wild fruits and honey as a source of income for the local tribal communities.

5. Ecological Threats and Conservation

The study tour also noted several environmental challenges:

- **Invasive Species:** Presence of *Lantana camara*, *Eupatorium odoratum* which competes with native flora.
- **Tourism Impact:** Soil compaction and littering near the historical cave areas.
- **Climate Shift:** Unusual flowering patterns noted by locals, possibly linked to shifting temperature gradients.

6. Conclusion

The botanical study tour to Naneghat provided a practical understanding of plant taxonomy and ecology. The region stands as a testament to the resilience of the Western Ghats' biodiversity. Protecting these "botanical islands" is crucial for maintaining the genetic diversity of the region and ensuring the survival of endemic species.

Guests: 0

Supporting agency: Department of Biotechnology, STAR College Scheme

Photos

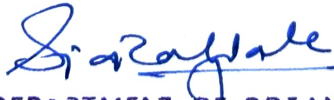


1: Students observing forest understory vegetation



2: Prof. Rahangdale explaining open land vegetation

News Reports


DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune


Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.

Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)


One Day Educational Tour to Naneghat

Date: 19/08/2025

ATTENDANCE: F.Y.B.Sc.

Sr. No.	Name of the student	Sign	
		Start	Return
1.	Ambhere Harshal Vishnu		
2.	Arote Akshada Vilas	Arote	Arote
3.	Bansode Sonali Santosh	Sonali	Sonali
4.	Bhagat Sharvari Hiranman		
5.	Bhaurale Pratiksha Sakharan		
6.	Dherange Vaishnavi Popat	V.P. Dherange	V.P. Dherange
7.	Dumbre Amruta Sunil	Amruta	Amruta
8.	Dumbre Megha Ravindra		
9.	Ghaywat Roshani Savaleram		
10.	Gijare Monika Govind	Gijare	Gijare
11.	Gode Shruti Ulhas		
12.	Hande Nisha Anil		
13.	Hilam Alisha Balu		
14.	Joshi Nisha Tukaram		
15.	Kasbe Diksha Shrikant	Diksha	Diksha
16.	Khamkar Pratiksha Yashwant		
17.	Khandagale Sanchita Haribhau	Pratiksha	Pratiksha

18.	Lendule Bhakti Digambar		
19.	Mandle Pallavi Sharad		
20.	Memane Pooja Umaji	P.V. Memane	P.V. Memane
21.	Nalawade Samruddhi Prabhakar	S.P. Nalawade	S.P. Nalawade
22.	Padir Tanishka Pravin		
23.	Saundade Rani Santosh		
24.	Shingote Akshada Santosh	A.S. Shingote	A.S. Shingote
25.	Thikekar Manali Mangesh		
26.	Auti Ayush Dnyaneshwar	Auti	Auti
27.	Bodake Abhishek Dilip		
28.	Chikhale Ayush Anil		
29.	Dherange Shubham Appasaheb	SADherange	SADherange
30.	Dumbre Aniket Gitaram	Dumbre	
31.	Pawar Shubham Appasaheb		
32.	Pophale Vishal Devidas	Pophale	Pophale
33.	Hande Bhavesh Vilas		
34.	Hande Sahil Ramdas		
35.	Hande Tanmay Rajaram		
36.	Dumbre Asmita Atul	Dumbre	Dumbre


 Head
 DEPARTMENT OF BOTANY
 A. W. College of Science Arts & Commerce
 OTUR Dist. Pune


 Principal
 Annasaheb Waghire College
 of Science, Arts & Commerce
 Otur, (Pune)


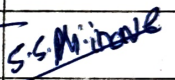
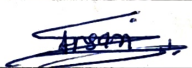
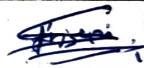



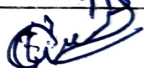

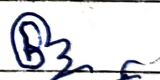


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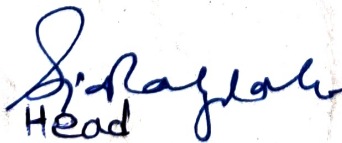
**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

One Day Educational Tour to Naneghat


Date: 19/08/2025

ATTENDANCE: S.Y.B.Sc.

Sr. No.	Name of the student	Sign	
		Start	Return
1.	Ahinave Shraddha Suresh		
2.	Ansari Shabana Tayyab		
3.	Dharade Varsha Gangaram		
4.	Gondake Goraksha Dattatray		
5.	More Rutik Pradip		
6.	Umbare Ravindra Chandrakant		


Head

**DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune**


Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

Date: 25/02/2026

To,

Hon. Principal,
Annasaheb Waghire College, Otur

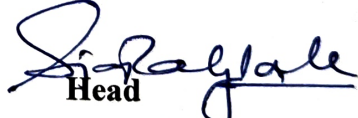
Sub: Requesting permission for organizing the workshop

Dear sir, Department of Botany going to organize "Workshop Natural Colours & Eco-Friendly Holi" in collaboration with Junnar Forest Division under DBT STAR College Scheme on Friday 27th February 2026, 12:00 pm. for FYBSc and SYBSc students. Kindly grant permission for the same and oblige.

Thanking you with warm regards.

Yours sincerely,


Botany Dept. Coordinator
DBT- STAR College Scheme


Head
Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune


Overall Coordinator
DBT- STAR College Scheme

Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409


Pune District Education Association's
**ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**

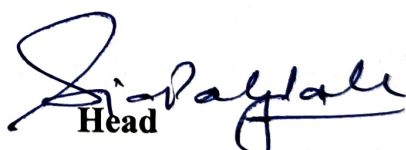
Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)

Date: 26/02/2026

NOTICE


All students from FYBSc and SYBSc are hereby notified that Department of Botany have organized a workshop on “**Natural Colours & Eco-Friendly Holi**” in collaboration with Junnar Forest Division under **DBT STAR College Scheme** on **Friday 27th February 2026, 12:00 pm.** So, all student from FYBSc and SYBSc, should attend the programme on prescribed time.


Botany Dept. Coordinator
DBT- STAR College Scheme


Head
Department of Botany
DEPARTMENT OF BOTANY
A. W College of Science Arts & Commerce
OTUR Dist. Pune


Overall Coordinator
DBT- STAR College Scheme

Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409


Principal
Principal
Annasaheb Waghire College
of Science Arts & Commerce
Otur,(Pune)

**Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND COMMERCE OTUR,
DIST- PUNE- 412409.**

**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

Activity Report: Workshop on Natural Colours & Eco-Friendly Holi

Date: 27th February 2026

Venue: Department of Botany, Annasaheb Waghire College of Arts, Commerce and Science, Otur

Organized by: Department of Botany under DBT-STAR College Scheme in Collaboration with Junnar Forest Division, Government of Maharashtra.

Resource Person: Shri Sanjay Bhoite, Junnar Forest Division.

Introduction

Holi is a vibrant festival celebrated across India, symbolizing joy, unity, and the arrival of spring. However, the excessive use of chemical colours can harm human health and the environment. To promote safe and sustainable celebrations during the Holi festival, a workshop on Natural Colours & Eco-Friendly Holi was organized.

Objectives

- To create awareness about the harmful effects of chemical colours.
- To promote the use of natural and eco-friendly colours.
- To demonstrate simple methods of preparing natural colours using household ingredients.
- To encourage environmentally responsible celebrations.

Activity Description

The workshop began with an introduction to the significance of celebrating an eco-friendly Holi. The resource person Shri Sanjay Bhoite explained the health hazards caused by synthetic colours, including skin irritation, allergies, and environmental pollution.

Participants were then shown how to prepare natural colours using easily available materials such as:

- Turmeric powder for yellow colour
- Beetroot for pink/red colour
- Spinach leaves for green colour
- Hibiscus flowers for red colour

- Multani mitti and flour as natural bases

A live demonstration was conducted where participants actively prepared dry and wet colours. The session also included discussions on saving water, avoiding plastic packaging, and promoting community awareness

about eco-friendly celebrations.



Mr. Bhoite Explaining Preparation of Natural Colours


Participant Involvement

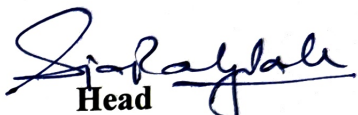
22 Participants enthusiastically took part in the preparation of natural colours and shared ideas on spreading awareness among friends and family. Many expressed interest in using homemade colours during Holi.

Outcomes


- Increased awareness about environmental and health impacts of chemical colours.
- Participants learned practical methods for making natural colours at home.
- Encouragement of sustainable and safe Holi celebrations.

The workshop successfully sensitized participants about the importance of celebrating Holi in an eco-friendly manner. Such initiatives help in protecting nature while preserving the cultural spirit of the festival.


Botany Dept. Coordinator
DBT- STAR College Scheme


Head
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A. W. College of Science Arts & Commerce
OTUR Dist. Pune


Overall Coordinator
DBT- STAR College Scheme


Principal
Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409

**Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**

**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

**One day Workshop on
"Natural Colours & Eco-Friendly Holi"
in collaboration of**

Junnar Forest Division, Junnar, Government of Maharashtra

Resource Person: Shri Sanjay Bhoite, JFD

Date: 27th February 2026, 12:30 pm.

ATTENDANCE SHEET

Sr. No.	Name of the participant	Class/Designation	Mobile no.	Sign
1	Umbare Ravindra chandrakant	S.Y.B.Sc	9699332918	
2	Bhos Sahil Vasant	S.T. BSC	8446201352	
3	Imak Veibhav Jagannath	S.T. BSC	9137224349	
4	Bhandkoli Sunanda Mivritti	S.Y. BSC	9021319709	
5	Ansari Shabana Tayyab	S.Y. BSC.	8483868024	
6	Dhazade Varesha Gitaam	S.Y. BSC	9699638624	
7	Chadga Shweta Subhush	S.Y. BSC	9880917436	
8	Dhat Abhishek Suresh	S.Y. BSC	9607583764	
9	Gaykar Yash Umesh	F.Y. BSC	7410727665	
10	Thikekar Sujal Vikas	F.Y. BSC	9766478270	
11	More Rutik Pradip	S.Y. BSC	9561718422	
12	Kishor Anath Dele	F.O. SCST	9309488823	
13	Mahesh Kalyan Jadhav	F.G	9507016562	
14	Kishan Purnaji Kharode	— x —	7385293077	
15	Rupawali Jagtap	R.O	9404241566	
16	Kishor Shelar	—	9890882900	
17	Savika Madhavrao Butte	R.O.	9975725049	
18	Mrs. Dumbx S.R.	staff	9284645732	
19	Mrs. More Ratnamala T.	staff.	9096227729	
20	Mrs. Dangal S.S	Staff	9970029952	

Date: 15/09/2025

To,

Hon. Principal,

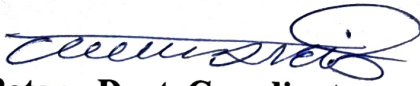
Annasaheb Waghire College, Otur

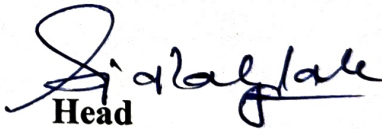
Sub: Requesting permission for organizing the workshop

Dear sir, Department of Botany going to organize "Flower Arrangement Techniques" under DBT STAR College Scheme on Saturday 19th September 2025, 2:00 pm. for FYBSc and SYBSc students. Kindly grant permission for the same and oblige.

Thanking you with warm regards.

Yours sincerely,


Botany Dept. Coordinator
DBT- STAR College Scheme


Head
Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune


Overall Coordinator
DBT- STAR College Scheme
Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409


**Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**


**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

Date: 15/09/2025

NOTICE

All students from FYBSc and SYBSc are hereby notified that Department of Botany have organized a workshop on “**Flower Arrangement Techniques**” under **DBT STAR College Scheme** on **Saturday 19th September 2025, 2:00 pm**. So, all student from FYBSc and SYBSc, should attend the programme on prescribed time.


**Botany Dept. Coordinator
DBT- STAR College Scheme**


**Head
Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science, Arts & Commerce
OTUR Dist. Pune**


**Overall Coordinator
DBT- STAR College Scheme**

**Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409**


**Principal
Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)**

**Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND COMMERCE OTUR,
DIST- PUNE- 412409.**

**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

Activity Report: Workshop on Flower Arrangement Techniques

Date: 19th September 2025 **Time:** 12:30 pm

Venue: Department of Botany, Annasaheb Waghire College of Arts, Commerce and Science, Otur

Organized by: Department of Botany under DBT-STAR College Scheme

Resource Person: Miss. Mrunali Lonkar

Introduction

A workshop on *Flower Arrangement Techniques* was successfully conducted to enhance participants' creativity and practical skills in floral design. The workshop aimed to introduce basic and advanced techniques of flower arrangement while promoting aesthetic appreciation and hands-on learning.

Objectives of the Workshop

The main objectives of the workshop were:

- To familiarize participants with different types of flowers and foliage
- To teach basic principles of flower arrangement such as balance, proportion, and harmony
- To demonstrate various flower arrangement styles and techniques
- To provide hands-on experience in creating floral arrangements

Participants

Workshop was attended by 17 participants, including students, teachers, and floral enthusiasts. The session was conducted by an floral designer Miss. Mrunali Lonkar.

Workshop Proceedings

The workshop began with an introductory session where the resource person explained the importance of flower arrangement in decoration, events, and personal spaces. This was followed by a demonstration of different flower arrangement styles such as:

- Ikebana (Japanese style)

- Floral bouquet arrangement
- Table and vase arrangements

Participants were introduced to essential tools such as floral foam, scissors, wires, and ribbons. The trainer explained the selection and care of flowers, colour coordination, and proper placement techniques.

Practical Session

During the practical session, participants were guided to create their own flower arrangements using fresh flowers and foliage. The trainer provided individual assistance and tips to improve design, symmetry, and presentation. The session encouraged creativity and active participation.

Outcome of the Workshop

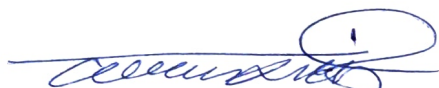
By the end of the workshop, participants gained:

- Knowledge of basic flower arrangement principles
- Practical skills in creating attractive floral designs
- Confidence to experiment with flowers for decoration purposes
- The workshop also helped participants develop patience, creativity, and teamwork.



Flower Arrangements made by students

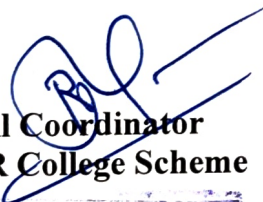
The workshop on Flower Arrangement Techniques was informative, engaging, and highly beneficial. It successfully met its objectives and received positive feedback from participants. Such workshops are recommended in the future to further enhance creative and artistic skills.



Botany Dept. Coordinator
DBT- STAR College Scheme



Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune



Overall Coordinator
DBT- STAR College Scheme

Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409



Principal
Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

Date: 09/01/2026

To,

Hon. Principal,
Annasaheb Waghire College, Otur

Sub: Requesting permission for organizing the workshop

Dear sir, Department of Botany going to organize “**Workshop on Intellectual Property Rights and Patents**” under **DBT STAR College Scheme** on **Monday 12th January 2026**, 12:00 pm. for FYBSc and SYBSc students. Kindly grant permission for the same and oblige.

Thanking you with warm regards.

Yours sincerely,



Botany Dept. Coordinator
DBT- STAR College Scheme



Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist, Pune



Overall Coordinator
DBT- STAR College Scheme

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DBT - Star College Scheme
PDEA's Annasaheb Waghire College
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Otur - 412409

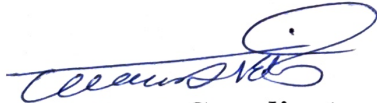
**Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**


**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

Date: 09/01/2026

NOTICE

All students from FYBSc and SYBSc are hereby notified that Department of Botany have organized a workshop on “**Workshop on Intellectual Property Rights and Patents**” under DBT STAR College Scheme on **Saturday 12th January 2025, 12:00 pm.** So, all student from FYBSc and SYBSc, should attend the programme on prescribed time.


**Botany Dept. Coordinator
DBT- STAR College Scheme**


**Head
Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune**


**Overall Coordinator
DBT- STAR College Scheme**

**Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409**


**Principal
Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)**

**Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND COMMERCE OTUR,
DIST- PUNE- 412409.**

**Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)**

Activity Report: Workshop on Intellectual Property Rights and Patents

Date: 12th January 2026

Venue: Department of Botany, Annasaheb Waghire College of Arts, Commerce and Science, Otur

Organized by: Department of Botany under DBT-STAR College Scheme

Resource Person: Prof. Dr. Sanjaykumar R. Rahangdale

Introduction:

A workshop on Intellectual Property Rights (IPR) and Patents was organized on 12th January 2026 at Department of Botany, Annasaheb Waghire College of Arts, Commerce and Science, Otur. The objective of the workshop was to create awareness among students and faculty about the importance of protecting intellectual creations, understanding patent systems, and encouraging innovation and research.

Objectives of the Workshop:

- To introduce participants to the concept of Intellectual Property Rights.
- To explain different types of intellectual property such as patents, copyrights, trademarks, and designs.
- To guide participants on the process of filing patents.
- To highlight the importance of protecting innovative ideas and research outcomes.

Proceedings of the Workshop:

The workshop began with a welcome address by Principal Dr. Shirsat, who emphasized the growing importance of intellectual property in academic research and industry.

The resource person, Prof. Dr. Sanjaykumar R. Rahangdale, delivered an informative session on Intellectual Property Rights, explaining the various forms of IP protection and their relevance in today's knowledge-driven economy. The speaker elaborated on patents, including patentable inventions, patentability criteria such as novelty, inventive step, and industrial applicability.

The participants were also introduced to the patent filing procedure, documentation requirements, and the role of patent offices. Real-life examples and case studies were presented to help the

audience understand how innovations are protected and commercialized. The speaker also discussed the importance of avoiding plagiarism and respecting the intellectual property of others.

An interactive question-and-answer session followed the presentation, where participants clarified their doubts regarding patent filing, ownership of inventions, and the benefits of intellectual property protection.

Participation:

The workshop witnessed active participation from students, faculty members, and research scholars from various departments. 27 participants attended the program including teachers, students and research scholars.

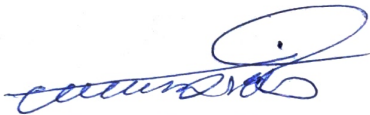
Outcome of the Workshop:

The workshop enhanced participants' understanding of intellectual property rights and patents. It motivated students and researchers to focus on innovation and consider protecting their inventions through appropriate IPR mechanisms.

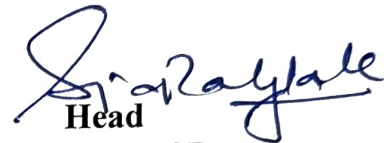


Dr. Rahangdale speaking about IPR and Patenting

The workshop concluded with a vote of thanks delivered by Prof. Manoj Deshmukh, who expressed gratitude to the resource person and the organizing committee for conducting an informative and engaging session. The event successfully created awareness about the importance of Intellectual Property Rights and encouraged participants to pursue innovation responsibly.



Botany Dept. Coordinator
DBT- STAR College Scheme



Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune



Overall Coordinator
DBT- STAR College Scheme



Principal
Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409

DBT- STAR College Attendance Scheme (A.Y. 2025-26)
National Yuth Day

Date: 12/01/2026

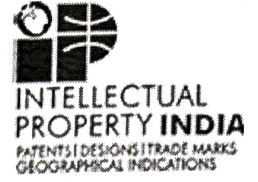
Lecture on Intellectual Property Rights

Speaker : Prof. Dr. S. R. Rahangdale

Sr. No.	Name of Participant	Class / Designation	Signature
1	Kutal Dipti Satish	F.Y. BSC	D.S.K.
2	Chhoge Prayal Suresh	F.Y. BSC	Prayal
3	Ambhore Harshal Vishnu	F.Y. BSC	H.Y. Ambhore
4	Khamkar pratiksha yashwanth	F.Y. BSC	Pratiksha
5	Dumbare Megha Ravindra	F.Y. BSC	Megha
6	Bhaurde Pratiksha Sakharan	F.Y. BSC	P.S. Bhaurde
7	Kharat Pratiksha Baban	F.Y. BSC	P.B. Kharat
8	Kharat Diksha Devram	F.Y. BSC	D.Kharat
9	Kharat Pradnya Devram	F.Y. BSC	P.Kharat
10	Gaykar Yash Umesh	F.Y. BSC.	Yash
11	Havane Somnath Shriram	F.Y. BSC	Somnath
12	Dherange Shekham Appasaheb	F.Y. BSC	Shekham
13	Dumbre Aniket Gitanori	F.Y. BSC	Aniket
14	Pophale Yishat Devidas	F.Y. BSC	Yishat
15	Bhale Anirath Balasaheb	F.Y. B.S.C	Bhale A.B
16	Joshi Nisha Tukaram	F.Y. B.S.C.	Nisha
17	Memane pooja umaji	F.Y. B.S.C	P.U. Memane
18	Goale Shrutika Jitendra	F.Y. B.S.C	Shrutika
19	Bansode sonali Santosh	F.Y. B.S.C	Sonali
20	Arote Akshada Vilas	F.Y. B.S.C	Arote
21	Gujare Manika Govind	F.Y. B.S.C	Manika
22	Patil M.V. Dushmukh	Staff	M.V. Patil
23	Dr. R.P. Patil	Staff	R.P. Patil
24	Dr. V.D. Pathan	Staff	V.D. Pathan
25	Mrs. More R.T.	Staff	R.T. More
26	Ms. Kulkarni S.S.	Staff	S.S. Kulkarni
27	Dr. Kumbhar B.M.		B.M. Kumbhar
28			
29			
30			



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India



Status : Inforce

Inforce upto : 22/10/2035


Design Number	: 477711-001	Filing Date	: 22/10/2025
Type of Application	: ORDINARY	Class:Subclass	: 10-05
Convention Country/IGO	:	Reciprocity Date	:
Notification Date	: 02/01/2026		:
Name of Article	: AIR SAMPLER FOR CROP DISEASE FORECASTING		

Sl No	Name of Registered Proprietor	Address
1	Dr. Pavan Ramdas Hande	Assistant Professor, Department of Botany, Pune District Education Association's Annasaheb Waghire College of Arts Science and Commerce, Otur, Tal-Junnar Dist- Pune. Maharashtra, India- 412409
2	Dr. Rani Babanrao Bhagat	Associate Professor, Department of Botany, Pune District Education Association's Baburaoji Gholap College, Sangvi, Pune Maharashtra, India- 411027
3	Rajkumar Bapurao Deshmukh	Associate Professor, Head, Department of Botany, Agriculture Development Trust's Shardabai Pawar College, Shardanagar, Baramati, Maharashtra, India- 413115

Address of Service : Shailendra Kumar (IN/PA-3962), Plot no 71 Road No 7, MN Reddy Nagar, Quthbulpur, Hyderabad 500067, Telangana, India

Additional Address of Service :

Back


DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune

अण्णासाहेब वाघिरे महाविद्यालयात पेटंट कार्यशाळा संपन्न

पुणे : ओतूर येथील अण्णासाहेब वाघिरे कला विज्ञान आणि वाणिज्य महाविद्यालयाच्या वनस्पतीशास्त्र विभागाने बौद्धिक संपदा अधिकार आणि पेटंट या विषयाबद्दलची कार्यशाळा डी.बी.टी. स्टार कॉलेज प्रकल्पांतर्गत दिनांक १२ जानेवारी २०२६ रोजी आयोजित केली होती, अशी माहिती महाविद्यालयाचे प्रभारी प्राचार्य डॉ. आर. एन. शिरसाट यांनी दिली. विद्यार्थ्यांना आणि महाविद्यालयीन कर्मचाऱ्यांना पेटंट म्हणजे काय तसेच बौद्धिक संपदा अधिकार आणि त्याचे महत्त्व याबद्दल अवगत करणे, हा सदर कार्यशाळेचा हेतू होता.



संजयकुमार रहांगडाले यांनी विद्यार्थ्यांना संशोधनाचे महत्त्व, पेटंट आणि बौद्धिक संपदा अधिकार याची सविस्तर माहिती दिली. तसेच त्यांनी पेटंट नोंदणी करण्याची प्रक्रिया आणि पेटंट मिळाल्यानंतरची प्रक्रिया यावर प्रकाश टाकला. आपल्या कल्पना व संशोधन यांचे तसेच आपण निर्माण केलेली संकल्पना आपल्याच नावाने नोंदली जाईल यासाठी बौद्धिक संपदा अधिकार कायदांतर्गत कोणत्याही व्यक्तीस पेटंट, किंवा कॉपीराईट करता येते. त्यासाठी आपली संकल्पना नवीनतम असावी लागते. या बौद्धिक संपदेचे रूपांतर नंतर आर्थिक संपदेत करता येते. म्हणूनच आपल्या बौद्धिक संपदेचे रक्षण करणे गरजेचे आहे असे प्रतिपादन डॉ. संजयकुमार रहांगडाले यांनी केले.

पत्रकार राजेंद्रकुमार शेलके

वनस्पतिशास्त्र विभागाच्या डॉ. पवन हांडे यांनी संकल्पित केलेल्या "एअर सॅम्पलर फॉर क्रॉप डिप्सीस फोरकास्टिंग" या उपकरणास भारत सरकारच्या वाणिज्य व उद्योग मंत्रालयाचे अंतर्गत येणाऱ्या उद्योग व व्यापार विभागाने भारतीय पेटंट नुक्तेच बहाल केले आहे. त्यांचे कौतुक या प्रसंगी करण्यात आले. हे संशोधन शेतकऱ्यांसाठी उपयुक्त ठरणार आहे, असे संशोधक डॉ. हांडे यांनी सांगितले. प्राचार्य डॉ. शिरसाट यांनी विद्यार्थ्यांना संशोधनात्मक उपक्रमांमध्ये सहभागी होऊन आपल्या संकल्पना पेटंटमध्ये उतरवण्याचे आवाहन केले. सदर कार्यक्रमास महाविद्यालयाचे उप प्राचार्य डॉ. के. डी. सोनवणे, गणित विभाग प्रमुख प्रा. एम. व्ही. देशमुख,

अर्थशास्त्र विभागप्रमुख डॉ. संदिपान गव्हाळे, प्राणिशास्त्र विभागप्रमुख डॉ. व्ही. डी. जाधव, भूगोल विभाग प्रमुख प्रा. डॉ. ए. टी. पाडवी, आय. क्यु. ए. सी. समन्वयक डॉ. योगेश्वर काळदते वाणिज्यसंशोधन केंद्र समन्वयक प्रा. डॉ. एम. बी. खदारे तसेच सहकारी शिक्षक डॉ. काशिदे, डॉ. राहुल पाटील, डॉ. किशोर काळदते प्रा. मोघे, प्रा. गोपाळे, प्रा. मोरे, प्रा. दगट, प्रा. कुलकर्णी तसेच शिक्षकेतर कर्मचारी उपस्थित होते. प्रा. देशमुख यांनी कार्यक्रमाचे आभार प्रदर्शन केले. विद्यार्थ्यांनी आणि कर्मचाऱ्यांनी कार्यक्रमास उत्स्फूर्त प्रतिसाद नोंदवला. सदर कार्यक्रम यशस्वी होण्यासाठी वनस्पतीशास्त्र विभागातील सुरेश थोराल तसेच विद्या आढारी यांचे विशेष सहकार्य लाभले.

पत्रकार राजेंद्रकुमार

शेलके

S. R. Rajgale

DEPARTMENT OF BOTANY
College of Science Arts & Commerce
O:UR Dist. Pune

Date: 09/07/2025

To,

Hon. Principal,

Annasaheb Waghire College, Otur

Sub: Requesting permission for organizing the workshop

Dear sir, Department of Botany going to organize "Plantation programme on the Occasion of Guru Purnima" under DBT STAR College Scheme on Saturday 10th July 2025, 12:30 pm. for FYBSc and SYBSc students. Kindly grant permission for the same and oblige.

Thanking you with warm regards.

Yours sincerely,



**Botany Dept. Coordinator
DBT- STAR College Scheme**



**Department of Botany
DEPARTMENT OF BOTANY
A. W. College of Science Arts & Commerce
OTUR Dist. Pune**



**Overall Coordinator
DBT- STAR College Scheme**

**Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409**

Pune District Education Association's
**ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.**

Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)

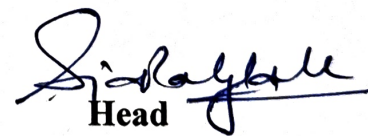
Date: 09/07/2025

NOTICE

All students from FYBSc and SYBSc are hereby notified that Department of Botany have organized a workshop on “**Plantation programme on the Occasion of Guru Purnima**” under **DBT STAR College Scheme** on **Saturday 10th July 2025, 12:30 pm**. So, all student from FYBSc and SYBSc, should attend the programme on prescribed time.



Botany Dept. Coordinator
DBT- STAR College Scheme




Department of Botany
DEPARTMENT OF BOTANY
A. W College of Science Arts & Commerce
OTUR Dist. Pune



Overall Coordinator
DBT- STAR College Scheme

Overall Coordinator
DBT - Star College Scheme
PDEA's Annasaheb Waghire College
of Arts, Science and Commerce
Otur - 412409



Principal
Annasaheb Waghire College
of Science, Arts & Commerce
Otur, (Pune)

Pune District Education Association's
ANNASAHEB WAGHIRE COLLEGE OF ARTS, SCIENCE AND
COMMERCE OTUR, DIST- PUNE- 412409.

Department of Botany
DBT-STAR College Scheme (A.Y.-2025-26)

Activity Report: Plantation programme on the Occasion of Guru Purnima

Date: 10th July 2025

Venue: Department of Botany, Annasaheb Waghire College of Arts, Commerce and Science, Otur

Organized by: Department of Botany under DBT-STAR College Scheme

Objective

- To aware the students about importance of plants.

Participants

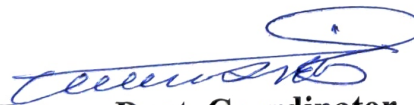
- 17 students of the college.
- 6 staff members of the college


Under the Department of Biotechnology STAR College Scheme, Botany department in Annasaheb Waghire College, Otur, on the occasion of Guru Purnima, July 10, 2025, 12:30 pm organized the plantation programme of *Equisetum*, a medicinal plant belonging to the fern family. The programme was attended by 17 students. At the beginning of the program, the Head of the Botany Department, Prof. Dr. Sanjaykumar Rahangdale, explained the importance of Guru Purnima and the significant role of a guru in life. He also expressed, through his self-composed poem, the sentiment that plants and nature are also our gurus. Following this, Dr. Ramesh Shirsat, the coordinator of the DBT Star College Scheme and the college's Vice-Principal, guided the students regarding the Star College Scheme and the activities planned under it. During the program, Manoj Deshmukh, Head of the Mathematics Department, spoke about the importance of trees and gurus in life. Vice-Principal Kalyan Sonawane, Dr. Eknath Kabadi, Dr. Gavhale, and Dr. Rahul Patil, along with other faculty members, were present at the event.




Plantation of *Equisetum ramosissimum*

The program concluded with a vote of thanks by Dr. Pavan Hande. Laboratory assistants Mrs. Vidya Adhari and Mr. Suresh Thorat from the Botany Department, along with the students, worked diligently to make this program a success.


Botany Dept. Coordinator
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Head
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