



Dayanand Science College, Latur.
Department of Microbiology
Events organized during the Academic year-2024-25

1. Name of the Department : **Department of Microbiology**
2. Complete name/ title of the Activity : **Scientific Study on Mahasomyag:
Effect Of
Mahasomyag on Air microflora**
3. Dates or Duration : **22-01-2025 to 30-01-2025**
4. Venue of the Event : **Selu, Tq. AUSA, Dist. Latur**
5. Sponsor/Collaborations (if any) : **DSCL and Shembekar Aqua-Agro Services**
6. Level of the event (encircle) : **District**
7. Purpose / aim / objective and outcome of the event:

Objective-

- **To study the traditional practice of Mahasomayag as part of Vedic rituals and its significance in Indian knowledge systems, particularly in relation to environmental purification.**
- **To assess the impact of Mahasomayag on the air microflora by analyzing the microbial load in the atmosphere before, during, and after the ritual.**
- **To compare the diversity and concentration of air microflora in areas exposed to the smoke of Mahasomayag with those in non-exposed (control) areas.**
- **To explore the potential of Mahasomayag as a natural method for environmental disinfection and air purification in modern-day contexts.**

Outcomes-

- **Scientific validation of traditional Vedic practices** – The study provided empirical evidence supporting the belief that Mahasomayag purifies the environment, especially the air.
- **Reduction in airborne microbial load** – A measurable decrease in the concentration of air microflora in the vicinity of the Mahasomayag site.
- **Change in microbial diversity** – Alterations in the types and proportions of microbial species before, during, and after the ritual was observed, indicating an effect on microbial ecology.
- **Improved understanding of bioaerosol dynamics** – It was observed that sacred fire rituals like Mahasomayag influence airborne microbial communities and air quality.



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- **Establishment of Mahasomayag as a potential eco-friendly bio-disinfection method** – The study suggested that traditional practices like mahasomyag can be used frequently for air purification.

8. Beneficiaries / Participants (Type/number, etc.): **Students –06 and other many**

9. Resources person: **NIL.**

10. Other major staff / student / Institution involved in the organization of the activity: **Shembekar Aqua-Agro Services (SAAS)**

11. Any other information / comment / qualitative remarks: Mahasomyag was conducted at Selu, Tq. Ausa, Dist. Latur, it was conducted by Shri Yadneshwar Rangnath Selukar Maharaj.

12. Photographs /Screenshots (with captions) submitted (number): (07)



Details of Mahsomyag Displayed on banner at Yadnya site



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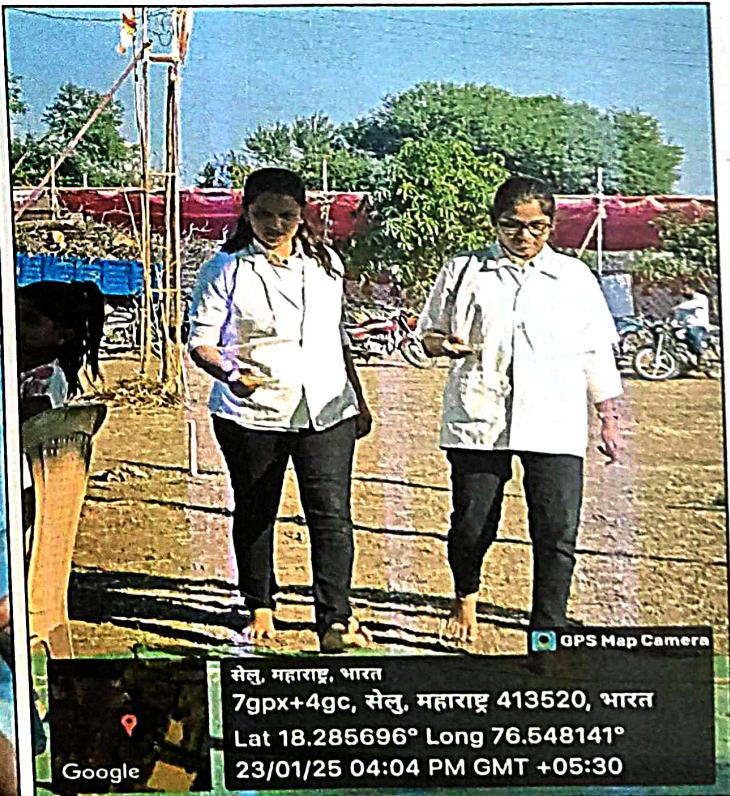
Team of students working for Scientific study of Mahasomyag-From left 1. Khandelwal Ritesh, 2. Korale Sarthak 3. Bushra Fatema, 4. Dr. D. D. Dhere (coordinator of activity) 5. Ms. Rajlaxmi Waghmare 6. Ms. Shivani Chatraband 7. Ms. Akankasha Miniyar



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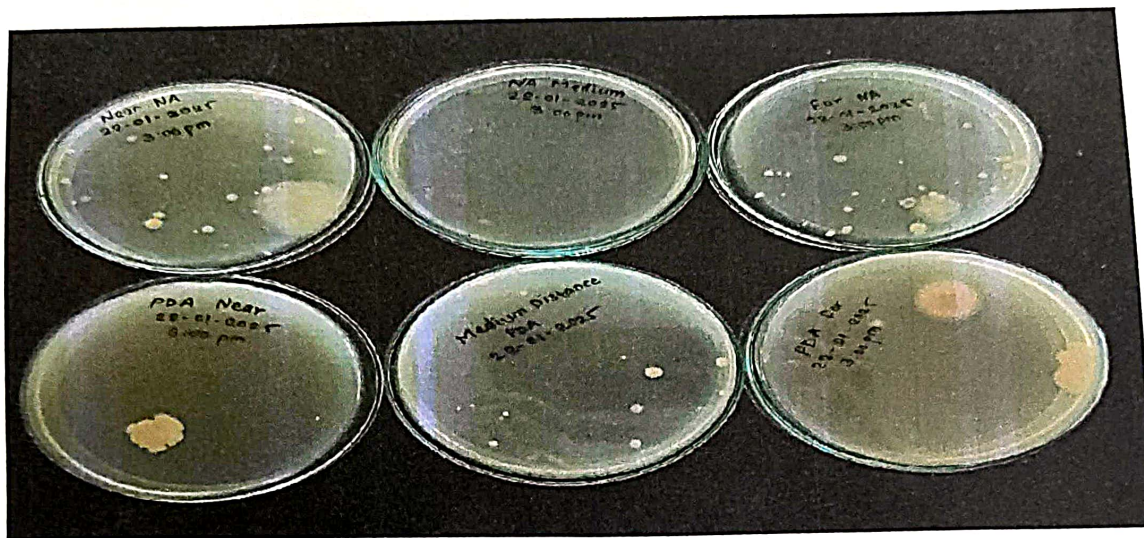
Students at site of Yadnya ready to collect samples



Air Sampling for study



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Representative results of experiment showing reduction in air microflora due to fumes generated during Mahasomyag



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13. Evidence produced (Certificate, letters, newspaper cuttings etc.):

Date :- 20 / 01 / 2025

To,
The Principal,
Dayanand Science College,
Latur.

Subject: Request for expertise and equipment support for minor research activity.

Dear Sir,


I am writing to request you for kind support in providing expertise and Tilak air sampler for minor research activity that we are currently undertaking. The purpose of this probe is to study the impact of Yodnya on quality of air and human health. The said yadnya is being organized during 22nd to 30th January 2025 at Selu, Tq. Budhoda, Dist Latur.

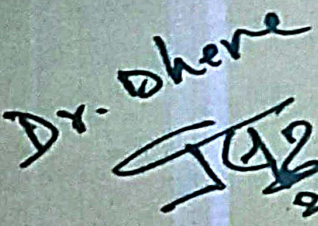

Given the expertise in Microbiology, I would greatly appreciate the involvement of Dr. Diptee Dhare, faculty in the Microbiology Department of your esteemed institute, who is expert in assessing aerial microflora, has an experience of undertaking such type of research work.

This collaborative research activity will contribute to environmental and human health issues and your involvement will significantly enhance its quality and relevance.

I kindly request you to consider this proposal and look forward to your positive response.

Thanking you in anticipation, I remain

Sincerely Yours

Dr. Vishwas Shembekar
Technical Director,
SAAS.


22.1.2025


SHEMBEKAR
AQUA-AGRO SERVICES

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shembekaraas@gmail.com
SHEMBEKAR AQUA AGRO SERVICES
Plot No. 1, Behind K. J. B. Bus Stand, Pimpri Chinchwad, Pune-411012

Request Letter for collaborative activity

ivities of Department during the year -2024-25



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॥ श्री ॥
॥ श्री यज्ञेश्वर रंगनाथ सेलूकर ॥

बहुविद्यालयीय संस्कृत विद्या प्रतिष्ठान,
मंगलवेड (सं.नं. FS001) अंतर्गत

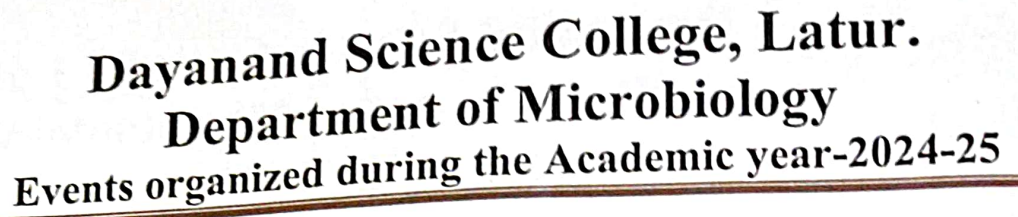
प.पू. गवामयन सत्र सोमयाजी दीक्षित श्री रंगनाथ कृष्ण सेलूकर महाराज
यांच्या कृपाशीर्वादाने

बहुसोमयाजी दीक्षित श्री यज्ञेश्वर रंगनाथ सेलूकर
यांच्या शुभहस्ते

**वासिष्ठ चतुराश्र
महासोमयाग**

दि. २२ ते ३० जानेवारी २०२५ (पाँच वद्य अष्टमी ते षाढ शुद्ध प्रतिपदा शके १९४६)
यज्ञस्थळ : दिनेश दिलीपराव पाटील यांचे शेत. सेलू ता. औसा, जि. लातूर.

॥ निमंत्रण ॥



प.पू. गुरुदास महाराज,
जीसेकर यांचे चळिभजन



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Program Schedule of Mahasomyag

दयानंदच्या सूक्ष्मजीवशास्त्र विभागाचा सोमयागावर वैज्ञानिक अभ्यास

लातूर - लातूर जिल्ह्यातील सेल्फे येथे दि. २२ जानेवारी ते ३० जानेवारी २०२५ दरम्यान आयोजित वसिष्ठ चतुर्गात्र महासोमयागाच्या माध्यमातून दयानंद विज्ञान महाविद्यालयाच्या सूक्ष्मजीवशास्त्र विभागाने एक अनोखा वैज्ञानिक अभ्यास हाती घेतला आहे. या यज्ञाच्या नातानुरूपाने सूक्ष्मजीवांच्या संख्येवर होणाऱ्या परिणामाचा शोध घेण्यासाठी महाविद्यालयाचे प्राचार्य डॉ. सिद्धेश्वर बेह्राळे यांच्या मार्गदर्शनाखाली प्रा. डॉ. दीप्ती डेरे आणि बी.एससी. द्वितीय वर्षाचे विद्यार्थी सहकार्य करणारे, बुधरा फातेमा, राजलक्ष्मी वाघमारे, अर्चना मिनीयार, शिवानी छत्रबंद व रितेश खंडेलवाल यांचा संघ



प्रत्यक्ष यज्ञस्थळी जाऊन वातावरणाचे नमुने गोळा करत आहेत. वेदोमध्ये सोमयागाला विशेष महत्त्व असून, यज्ञामुळे वातावरणात सकारात्मक बदल होताना, असे प्राचीन ग्रंथांमध्ये वर्णन आहे. सोमयागाच्या प्रक्रियेत विविध प्रकारच्या औषधी वनस्पतींचा वापर करून यज्ञकुंडात

आहुती दिली जाते. त्यामुळे वातावरणात सुगंधी वायू निर्माण होऊन रोगकारक घटक कमी होतात व आरोग्यास अनुकूल घटकांची वाढ होते, असे मानले जाते. याच यज्ञामुळे वातावरणातील रोग निर्माण करणाऱ्या सूक्ष्मजीवांच्या संख्येवर देखील परिणाम होतो असे नमूद आहे.

सोमयागाच्या शार्दूल न आध्यात्मिक महत्त्वाबरोबरच त्याचा वैज्ञानिक आधार निदो करण्याचा हा प्रयत्न महत्त्वाचा ठरणाऱा आहे. जर या अभ्यासातून सकारात्मक निष्कर्ष मिळाले, तर पर्यावरण संवर्धनासाठी व आरोग्य सुधारण्यासाठी यज्ञाचा वैज्ञानिक दृष्टिकोन अतिशय उपयुक्त ठरू शकतो. या समाजासमोर मांडला जाऊ शकतो. या संशोधनात सूक्ष्मजीवशास्त्र विभागप्रमुख डॉ. राहुल मोरे, प्रा. डॉ. महेश करळे, प्रा. शीतल पाटील, प्रा. जैलज धुतेकर, प्रा. अनुपम इंगळे, माधव भुर्यवंशी, अशोक मदन, प्रा. संध्याराणी टेकळे, प्रा. राधिका मालू यांचे विशेष सहकार्य लाभले.

News in local newspaper-Dainik Yuva Chatrapati

14. Name and Signature of Coordinator: Dr. D. D. Dhere *D. Dhere*
15. Teaching staff: HOD, Dr. R. A. More, Dr. M. A. Karale, Mrs. S. D. Patil, Mrs. S. S. Dhutekar, Ms. Sandhyarani Tekale, Ms. A. R. Ingle, Mrs. R. Malu

Rank

HOD

HEAD

Department of Microbiology
Dayanand Science College
LATUR- 413512

IQAC
22/4/2025
IQAC-Coordinator

IQAC - Coordinator
Dayanand Science College
Latur, M.S. (INDIA)

Principal
Principal

I/C Principal
Dayanand Science College
Latur