

“Activity Report: Soil Testing (2021-2022)”

Organizers: IFFCO and Department of Botany, Nutan Mahavidyalaya Selu, Dist. Parbhani

Mobile Soil Testing Van: Yes

Dates and Places:

- April 27, 2022: Borgaon (SD)
- April 28, 2022: Maletakle Tq Sailu
- April 29, 2022: Aher Borgaon

Total Farmers Involved: 138

Introduction:


This report summarizes the joint soil testing activity conducted by IFFCO and the Department of Botany at Nutan Mahavidyalaya Selu in the Parbhani district during the 2021-2022 agricultural year. The activity utilized a mobile soil testing van to reach farmers in three different locations and provide them with valuable insights into their soil health.


Methodology:

- A mobile soil testing van equipped with necessary testing equipment was used.
- The van visited three predetermined locations: Maletakle Tq Sailu, Borgaon (SD), and Aher Borgaon.
- Farmers brought soil samples from their fields for testing.
- Tests were conducted on-site for essential parameters like pH, macronutrients (N, P, K), and potentially other relevant nutrients depending on local soil conditions and crop requirements.
- Farmers received personalized reports with test results and recommendations for fertilizer application and soil management practices.

Outcomes:

- A total of 138 farmers participated in the activity, benefiting from convenient and accessible soil testing services.


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- The soil test results provided farmers with crucial information about the nutrient status of their land, empowering them to make informed decisions about fertilizer application.
 - By tailoring fertilizer use based on actual soil needs, farmers can potentially improve crop yields, optimize resource utilization, and contribute to more sustainable agricultural practices.

Aims and Objectives of the Soil Testing Tour:

Aims:

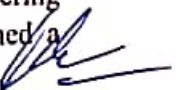
- To provide students with first-hand experience of mobile soil testing technology and its application in the field. This includes observing the entire process, understanding the importance of soil data, and witnessing its impact on farmers' decision-making.
- To deepen students' understanding of the importance of soil health and its impact on plant growth and crop yield. This allows them to connect classroom knowledge about soil science to real-world agricultural practices.
- To equip students with insights into the challenges and opportunities related to soil testing in rural areas. This exposes them to the needs and limitations faced by farmers, fostering empathy and understanding.
- To create an awareness about the collaborative efforts between institutions like IFFCO and Nutan Mahavidyalaya in supporting sustainable agriculture. This inspires students to consider potential future collaborations and contributions to the agricultural sector.
- To foster an appreciation for the role of soil testing in improving agricultural productivity and ensuring food security. This allows students to connect their academic pursuits to wider societal impact.

Objectives:

- Students will be able to describe the steps involved in mobile soil testing and explain the key parameters measured.
- Students will be able to interpret soil test results and analyse their implications for fertilizer recommendations and crop selection.
- Students will be able to articulate the challenges and benefits of adopting soil testing practices in rural areas, discussing solutions and potential barriers.
- Students will be able to identify the collaborative efforts between institutions like IFFCO and Nutan Mahavidyalaya in supporting farmers, appreciating the importance of such partnerships.
- Students will be able to reflect on the importance of soil health and soil testing in sustainable agriculture, discussing its impact on food security and environmental concerns.

Conclusion:

The Department of Botany's soil testing tour to Maletakle, Borgaon (SD), and Aher Borgaon proved to be a valuable learning experience for the participating students. Witnessing mobile soil testing technology first-hand provided an immersive understanding of its practical application in diverse rural settings. By interacting with farmers and technicians, students gained insights into the challenges and opportunities associated with soil testing, fostering empathy and awareness. Through observation and active participation, students gained a



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deeper understanding of soil health, its impact on crop yields, and the importance of data-driven decision-making in agriculture. The collaborative efforts between IFFCO and Nutan Mahavidyalaya served as an inspiring example of how institutions can work together to support sustainable farming practices. This experience undoubtedly enriched their academic knowledge and potentially sparked future interests in research, outreach, or careers related to soil health and its vital role in ensuring food security and environmental well-being.

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 Department of Botany
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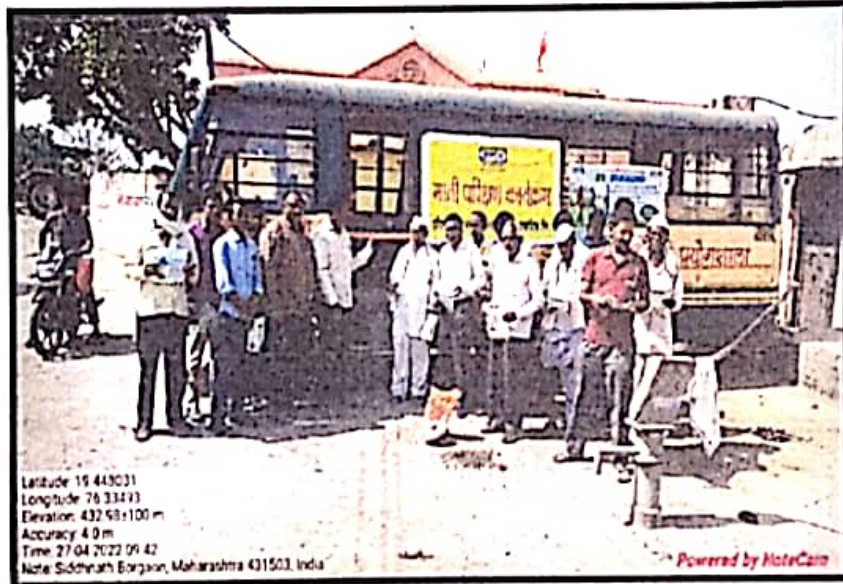
Director IQAC
Director
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 Nutan Mahavidyalaya, Sailu

Principal
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Longitude: 76.334929
Elevation: 432.98±100 m
Accuracy: 4.1 m
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Note: Siddhnath Bargaon, Maharashtra 431503, India

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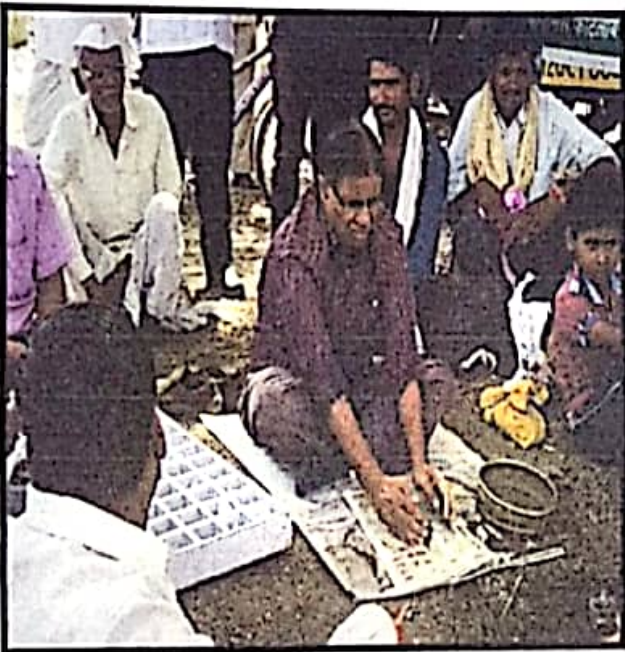
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soil-testing camp at 'siddhnath-Bargaon'


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Soil Testing at Aher Borgaon.

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