



**NUTAN MAHAVIDYALAYA, SAILU-431503
DIST. PARBHANI**

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“Activity Report: Soil Testing (2022-2023)”

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

Mobile Soil Testing Van: Yes

Dates and Places:

- April 26, 2023: Wakhi and Pimprula, Tq. Sailu
- April 27, 2023: Sonwati, Tq. Sailu
- April 28, 2023: Nipani Takli, Tq. Sailu
- April 29, 2023: Kundi, Tq. Sailu

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 2022-2023 agricultural year. The activity utilized a mobile soil testing van to reach farmers in four 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 four predetermined locations across Sailu taluka.
- 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:

- The exact number of farmers who participated is not mentioned, but the van likely reached a significant number across the four locations.
- Similar to the previous year's activity, farmers benefited from convenient and accessible soil testing services.
- The soil test results provided crucial information about nutrient deficiencies or imbalances, empowering them to make informed decisions about fertilizer use.


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- By tailoring fertilizer application 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 different agricultural settings. This includes observing the entire process, understanding the importance of soil data, and witnessing its direct impact on farmers' decision-making in various locations.
- To deepen students' understanding of the diverse soil conditions and agricultural practices within the region. By visiting several villages with distinct soil types and crops, students can connect classroom knowledge with real-world variations and challenges.
- To equip students with insights into the challenges and opportunities associated with soil testing in diverse rural communities. This exposure allows them to understand the needs, limitations, and successes of farmers in different contexts.
- To create awareness about the collaborative efforts between institutions like IFFCO and Nutan Mahavidyalaya in supporting sustainable agriculture. This fosters an understanding of the importance of partnerships and potential future contributions students can make.
- To foster an appreciation for the role of soil testing in improving agricultural productivity and ensuring food security for the region. This allows students to connect their academic pursuits to wider societal impact and appreciate the significance of soil health.

Objectives:

- Students will be able to describe the steps involved in mobile soil testing and explain the key parameters measured, recognizing variations based on soil conditions and crops.
- Students will be able to interpret soil test results from different locations and analyse their implications for fertilizer recommendations and crop selection.
- Students will be able to articulate the specific challenges and benefits of adopting soil testing practices in each visited community, discussing potential solutions and barriers.
- Students will be able to identify the collaborative efforts between institutions like IFFCO and Nutan Mahavidyalaya, appreciating the positive impact of such partnerships on rural communities.
- 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 in the region.

Conclusion:

The Department of Botany's mobile soil testing tour to Wakhi, Pimprula, Sonwati, Nipani Takli, and Kundi proved to be a valuable and multifaceted learning experience for the participating students. Witnessing the application of mobile soil testing technology across diverse agricultural settings provided an immersive understanding of its practical impact on various crops and soil types. By interacting with farmers and technicians in each location, students gained nuanced insights into the unique challenges and opportunities associated with

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soil testing in different rural communities. Through observation, participation, and focused discussions, students gained a deeper understanding of the complex relationship between soil health, agricultural practices, and regional variations. Recognizing the collaborative efforts between IFFCO and Nutan Mahavidyalaya, they experienced the power of partnerships in supporting sustainable agriculture and empowering rural communities. This enriching experience undoubtedly expanded their academic knowledge, fostered empathy for farmers' challenges, and potentially sparked future interests in research, outreach, or careers related to soil health, food security, and environmental well-being in the region.

HOB
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soil Testing at Niphani Takli



Latitude: 19.532139
 Longitude: 76.446495
 Elevation: 403.68±100 m
 Accuracy: 6.8 m
 Time: 26-04-2023 11:17
 Note: sonwati



Latitude: 19.532203
 Longitude: 76.446405
 Elevation: 409.68±100 m
 Accuracy: 9.4 m
 Time: 26-04-2023 11:18
 Note: sonwati



Soil Testing at Kundi

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इफको

फिरती माती परीक्षण प्रयोगशाळा

माती तपासणीसाठी नमुना कसा काढावा.

शेतीचा खर्चात बचत करणे व अन्नद्रव्ये व्यवस्थापनेस नियोजित करण्यासाठी माती तपासणी करणे महत्वाचे आहे. त्यासाठी नमुना खालील प्रमाणे काढावा.



- ◆ क्षेत्रातील वेगवेगळ्या ठिकाणी माती नमुना घेणेसाठी जागा निवडावी.
- ◆ ३० से.मी. खोल इंगरी घेई. आकाराचा खड्डा प्यावा.
- ◆ खड्डापानील माती चाहेर काढून टाकावी व खड्डापारच्या कडेची माती खरडवून प्यावी.
- ◆ सर्व खड्डापानील माती गोळा करून चांगली मिसळवावी व समान चार भाग करावेत.
- ◆ समान मधोर्मिळ दोन समान भाग एकत्र करून प्यावेत अशी प्रक्रिया १ किती माती जिल्सक राहिल, तोपर्यंत करावी व सरत नमुना कापडी विषाधीन भरून नव्यामणीसाठी पाठवावी.
- ◆ नमुन्यासोबत शेतकऱ्याचे नाव, गांव, तालुका, जिल्हा, गट नं., घेतलेले पीक व घेणारे पीक यांची माहिती द्यावी.

नमुना घेण्याचे टाळावे.

- ◆ गोंडपारवळची जागा
- ◆ बांधारवळची जागा
- ◆ घग्नीजवळची जागा
- ◆ खत घातलेली जागा

इफकोची ठिबक सिंचन व फवारणीसाठी पाण्यात विरघळणारी खते



इफको

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माती तपासणीसाठी शेतकऱ्यांची माहिती

शेतकऱ्यांचे नांव : _____

गांव : _____ तालुका : _____ जिल्हा : _____

गट नं. : _____ घेतलेले पीक : _____ घेणारे पीक : _____