Webinar Report
on
"Soil Testing & Soil Health Card: A Key to Sustainable Farming"

SCHOOL OF AGRICULTURAL SCIENCE

Organized by: School of Agricultural Science In collaboration with IQAC, YBN University, Ranchi

Date : 5th March 2025

Time : 11:30 AM

Platform : Google Meet

Introduction

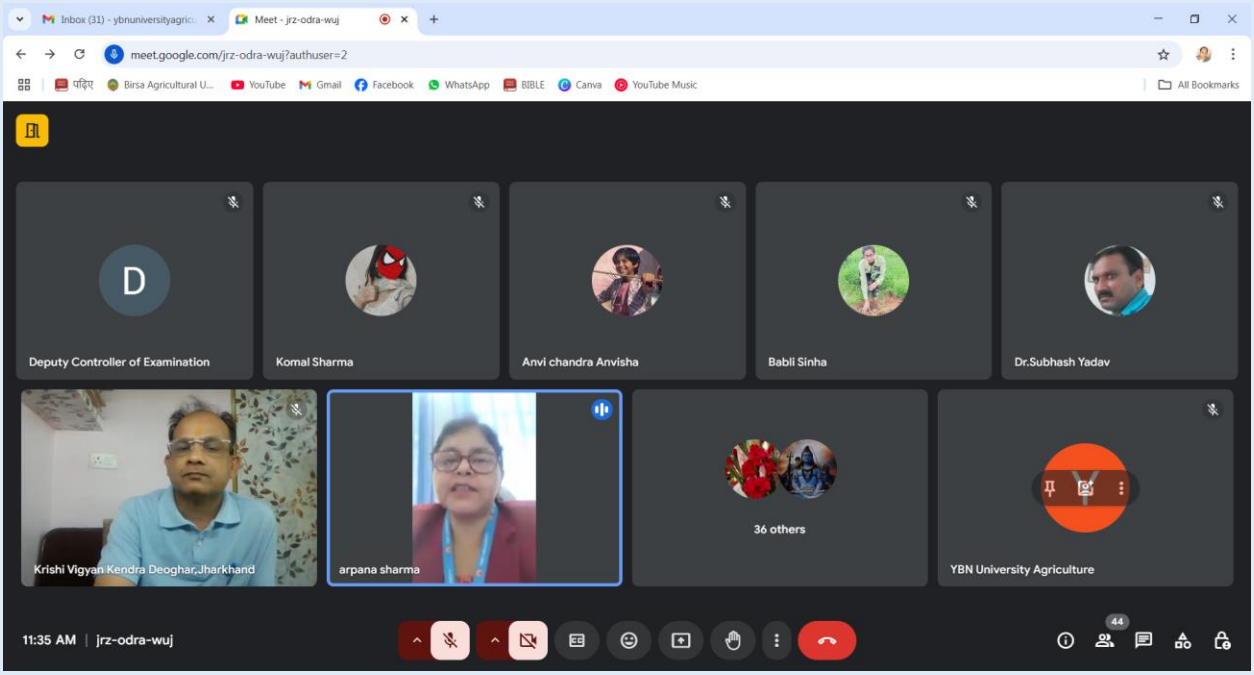
The School of Agricultural Science, YBN University, Ranchi, in collaboration with the **Internal Quality Assurance Cell (IQAC),** organized an insightful webinar on the theme "**Soil Testing & Soil Health Card: A Key to Sustainable Farming**" on **5th March 2025**. This webinar was aimed at spreading awareness among students, faculty members, and farmers about the importance of soil testing and the effective use of Soil Health Cards for enhancing soil fertility and ensuring sustainable agricultural practices.

The event saw active participation from students, academicians, researchers, and farmers, making it a great platform for knowledge sharing and capacity building.

Inaugural Session and Welcome Address

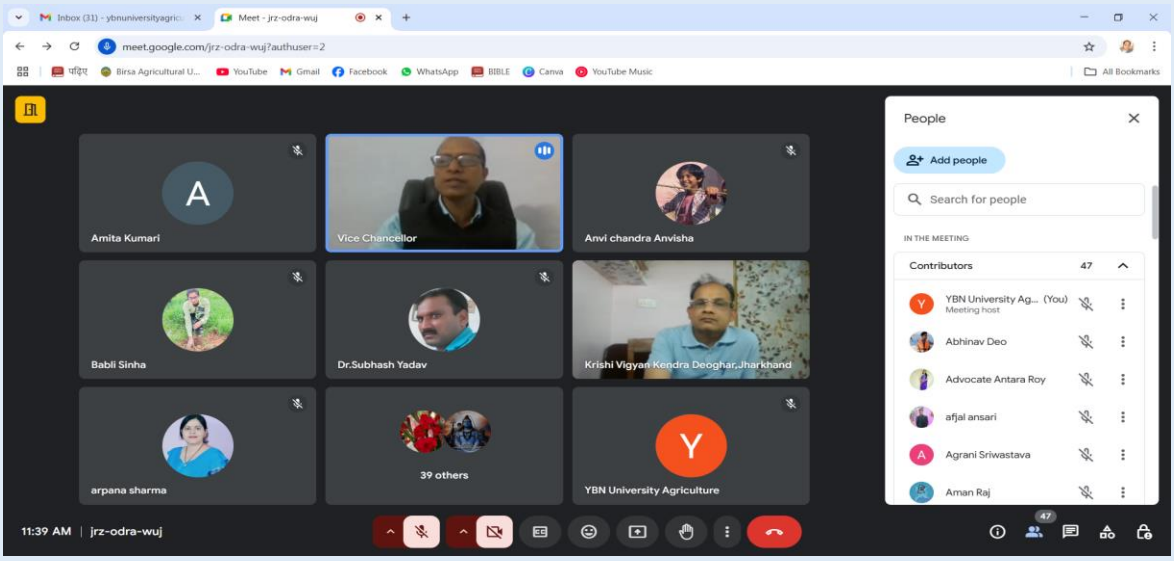
The session started at 11:30 AM on Google Meet with a warm welcome from Dr. Ashish Sarkar, Director of IQAC, YBN University, Ranchi. He emphasized the critical role of soil health in sustainable agriculture and how such webinars contribute to the academic and practical knowledge of the participants.

Following this, Dr. Arpana Sharma, Dean Academics and Associate Dean of the School of Agricultural Science (SoAGS), YBN University, Ranchi, addressed the audience. She highlighted the initiatives taken by the university to promote sustainable farming techniques among students and local farmers. She also mentioned the significance of soil testing and the distribution of Soil Health Cards in promoting balanced nutrient management.



Opening Remarks

The webinar commenced with **Opening Remarks by Hon'ble Vice Chancellor, Dr. S.P. Yadav**, YBN University, Ranchi. In his address, **Dr. Yadav** emphasized the significance of sustainable farming for future food security and the crucial role soil health plays in ensuring sustainable agricultural productivity. He highlighted the university's continuous efforts in organizing such academic events to bridge the gap between scientific knowledge and its practical application in the field. He motivated the participants to adopt innovative and scientific methods like soil testing for enhancing farm productivity and maintaining environmental balance.



Keynote Speaker Session

The keynote address was delivered by Dr. Rajan Kumar Ojha, Senior Scientist and Head, Krishi Vigyan Kendra (KVK), Deoghar, Jharkhand. Dr. Ojha delivered an engaging and informative presentation that covered a wide range of issues related to soil health management.

Key Points Discussed:

1. Importance of Soil Testing

Dr. Ojha explained the concept and process of soil testing, emphasizing how it helps in understanding the nutrient status of the soil. He elaborated on how regular soil testing can help farmers optimize fertilizer use, reduce input costs, and increase productivity.

2. Soil Health Card Scheme

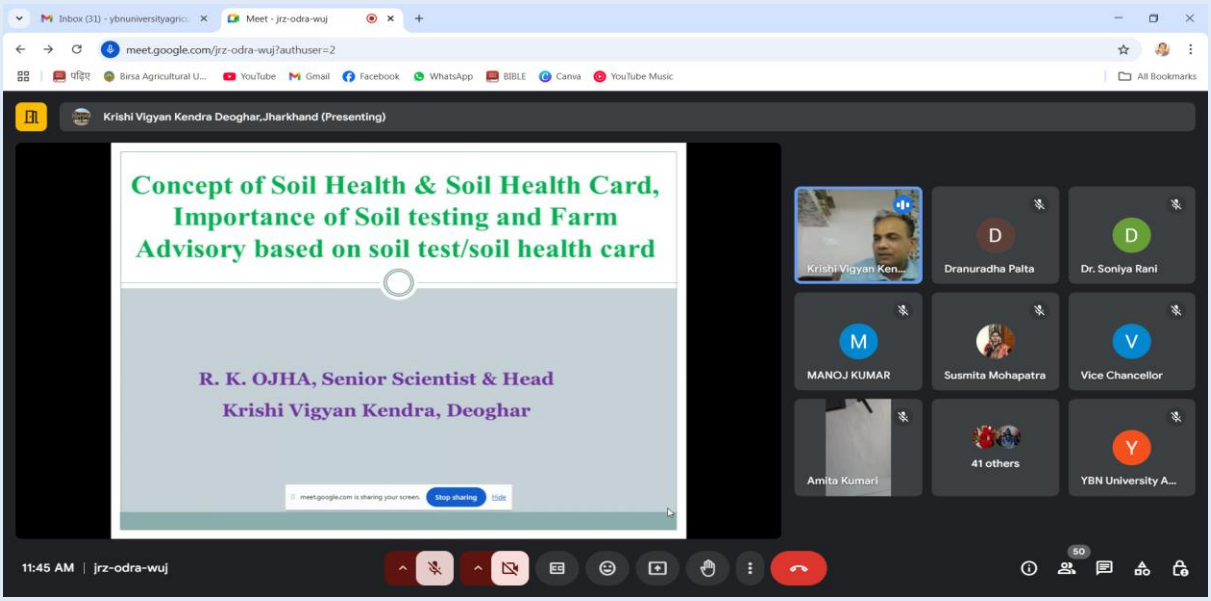
The speaker provided a detailed overview of the Government of India's Soil Health Card Scheme, its objectives, and its benefits to farmers. He explained how these cards help in making informed decisions about nutrient management, thus enhancing the long-term health of the soil.

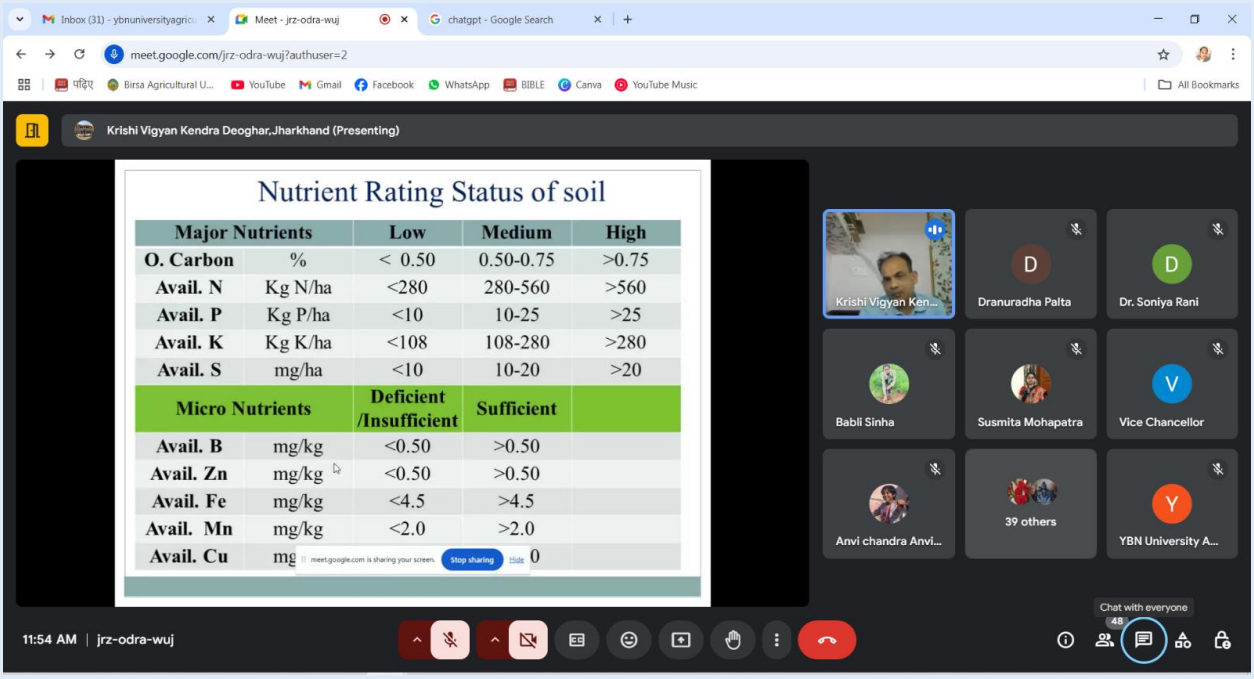
3. Sustainable Farming and Balanced Fertilization

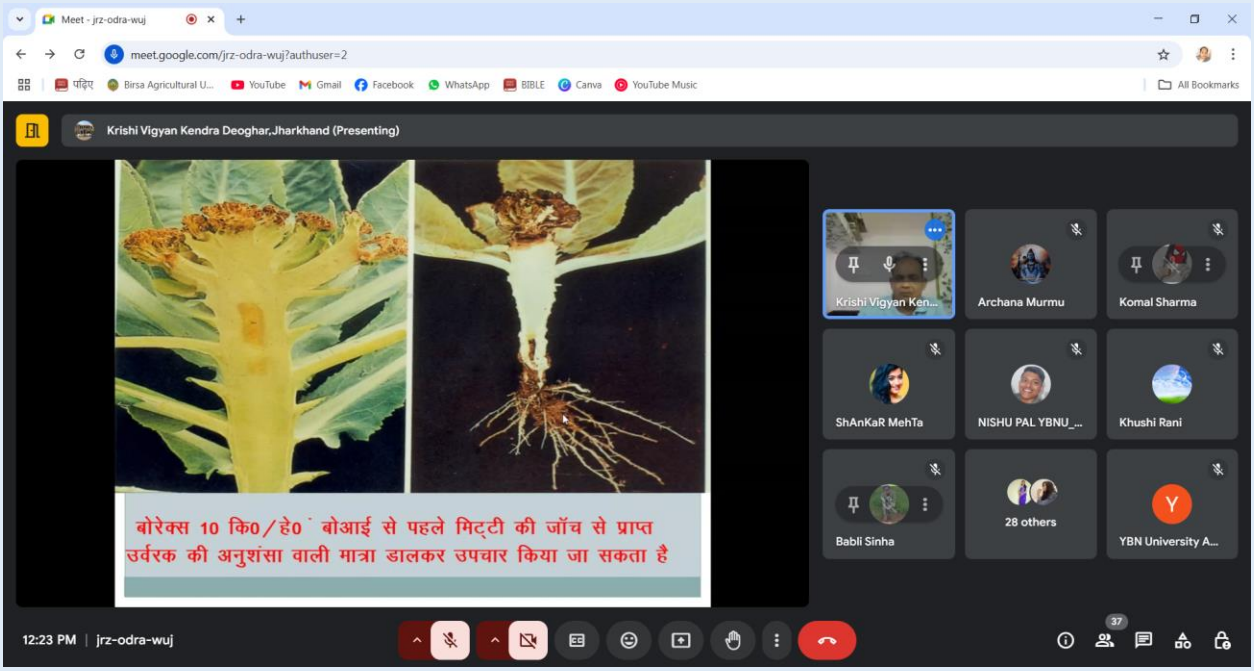
Dr. Ojha highlighted the importance of adopting balanced fertilization techniques based on soil test recommendations. He stressed the need to minimize the excessive and unscientific use of chemical fertilizers, which can lead to soil degradation.

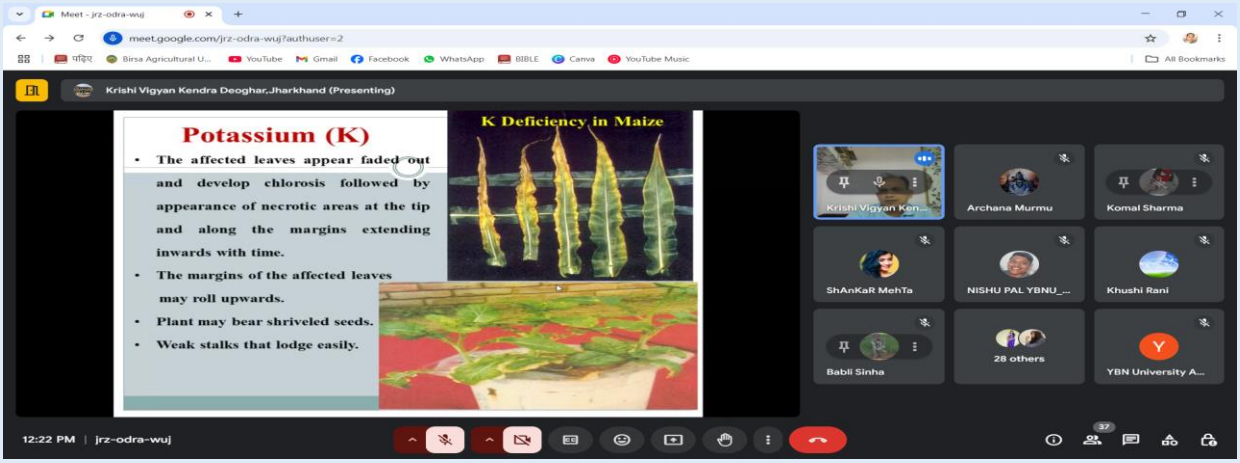
4. Role of Organic Inputs and Green Manuring

The speaker also discussed the significance of incorporating organic matter, compost, and green manuring practices to improve soil structure, water-holding capacity, and microbial activity.




Krishi Vigyan Kendra Deoghar,Jharkhand (Presenting)
Nutrient Rating Status of soil
Major Nutrients | Low | Medium | High
O. Carbon | % | < 0.50 | 0.50-0.75 | >0.75
Avail. N | Kg N/ha | <280 | 280-560 | >560
Avail. P | Kg P/ha | <10 | 10-25 | >25
Avail. K | Kg K/ha | <108 | 108-280 | >280
Avail. S | mg/ha | <10 | 10-20 | >20
Micro Nutrients | Deficient /Insufficient | Sufficient
Avail. B | mg/kg | <0.50 | >0.50
Avail. Zn | mg/kg | <0.50 | >0.50
Avail. Fe | mg/kg | <4.5 | >4.5
Avail. Mn | mg/kg | <2.0 | >2.0
Avail. Cu | mg | 0
Krishi Vigyan Ken...
Dranuradha Palta
Dr. Soniya Rani
Babli Sinha
Susmita Mohapatra
Vice Chancellor
Anvi chandra Anvi...
39 others
YBN University A...
11:54 AM | jrz-odra-wuj


Krishi Vigyan Kendra Deoghar,Jharkhand (Presenting)
बोरेक्स 10 कि0/हे0 बोआई से पहले मिट्टी की जॉच से प्राप्त उर्वरक की अनुशंसा वाली मात्रा डालकर उपचार किया जा सकता है
Krishi Vigyan Ken...
Archana Murmu
Komal Sharma
ShAnKaR MehTa
NISHU PAL YBNU_...
Khushi Rani
Babli Sinha
28 others
YBN University A...
12:23 PM | jrz-odra-wuj


Krishi Vigyan Kendra Deoghar,Jharkhand (Presenting)
Potassium (K)
The affected leaves appear faded out and develop chlorosis followed by appearance of necrotic areas at the tip and along the margins extending inwards with time.
The margins of the affected leaves may roll upwards.
Plant may bear shriveled seeds.
Weak stalks that lodge easily.
K Deficiency in Maize
Krishi Vigyan Ken...
Archana Murmu
Komal Sharma
ShAnKaR MehTa
NISHU PAL YBNU_...
Khushi Rani
Babli Sinha
28 others
YBN University A...
12:22 PM | jrz-odra-wuj

Interactive Session

The webinar included an engaging Q&A session where participants raised various queries related to soil health, testing techniques, interpretation of Soil Health Cards, and nutrient management. Some of the interesting questions discussed were:

- How to collect a proper soil sample for testing?

- What steps should be taken if the soil health card indicates micronutrient deficiencies?

- Role of biofertilizers in soil health management.

- Long-term benefits of adopting sustainable soil fertility practices.

Dr. Ojha provided satisfactory and detailed responses to all the queries, encouraging students and farmers to adopt modern and sustainable soil health management practices.

Closing Remarks

The webinar concluded with **Closing Remarks by Dr. Arpana Sharma, Associate Dean, School of Agricultural Science**. She appreciated the engaging discussions and emphasized the necessity of spreading awareness about soil health management at the grassroots level.
Following this, **Ms. Asha Puran, Assistant Professor, School of Agricultural Science, delivered the Vote of Thanks**. She expressed gratitude to Dr. Rajan Kumar Ojha for his valuable insights, the university administration for their support, and all participants for their active involvement.
The event was successfully **hosted by Dr. Abha Nutan Kujur**, who ensured smooth proceedings and effective moderation of the discussion.

Conclusion

The webinar was highly informative and well-received by the participants. It provided crucial knowledge on soil testing and its role in sustainable farming. The event successfully achieved its objective of raising awareness among students and professionals about the importance of soil health and how modern soil management techniques can contribute to sustainable agricultural practices.

The School of Agricultural Science, YBN University, looks forward to organizing more such educational events to further promote sustainable and scientific agricultural advancements.