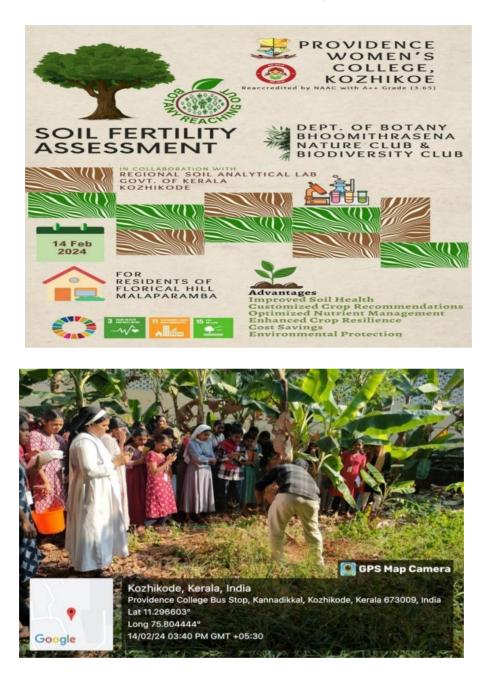
DEPARTMENT OF BOTANY EXTENSION ACTIVITY - 4

Soil fertility analysis and distribution of soil health cards (14/02/2024) -Florical Hill, Malaparamba





Report on Soil Fertility Assessment

Date: 14 February 2024
Survey: College Premises and 35 houses in the Nearby Residential Areas, Florican Hill, Malaparamba
Organized By: Department of Botany in collaboration with the Regional Soil Analysis Laboratory, Kozhikode

Participants: 39 III BSc Botany students

The Department of Botany, Providence Women's College organized a soil fertility assessment on February 14, 2024, conducted in collaboration with the Regional Soil Analysis Laboratory, Kozhikode. The assessment focused on analyzing soil fertility in the areas of Florican Hill and the college premises in Malaparamba, Kozhikode. This initiative provided hands-on training in soil sampling techniques, enabling both students and residents to analyze the soil texture, porosity, and physico-chemical parameters of their household soils. Each student collected two samples—one from the college premises and another from one of the 35 participating households in the residential area. These samples were then analyzed for various physico-chemical parameters, including soil fertility.

The results were compiled into soil health cards and distributed to the residents. This initiative helped residents gain valuable insights into their soil's nutrient status and physico-chemical characteristics. Empowered with this knowledge, they can now make informed decisions about soil management practices, particularly for gardening and farming.

Community Engagement and Impact:

The outreach component of the program provided valuable benefits to the local community. Residents received detailed analyses of their soil samples, including insights into fertility and nutrient status. This information empowers them to make informed decisions regarding soil management practices for gardening and farming.

Student Contributions:

- Students applied their knowledge by interpreting the data collected from the soil analyses. They presented their findings in the as comparisons between soil samples from different locations.
- Insights into factors influencing soil fertility and health.
- Recommendations for soil improvement tailored to local conditions.

Conclusion:

The soil fertility assessment program successfully bridged academic learning and community service. It not only provided valuable practical experience to the students but also contributed to the broader goal of community development through scientific outreach. By understanding and improving soil health, both students and local residents are better equipped to promote sustainable agricultural practices.