

M.G.V.C ARTS, COMMERCE AND SCIENCE COLLEGE, MUDDEBIHAL



BEST PRACTICE - I

WATER AND SOIL TEST

Title : Water and Soil test.

Goal : To analyze soil and water for their nutritional status and based on which the nutrient application through fertilizers and manures to meet the crop specific needs are recommended for better soil health management and enhancing economic return to farmers.

Objectives:

- To generate awareness of soil and water testing among the farmers.
- To promote a sense of quality standards of soil and water to increase the fertility of soil.
- To give an idea of preventing the soil and water pollution to farmers by the optimum fertilizers practices.
- To assess the suitability of water for irrigation.
- To bring a healthy contact between farmers and agriculture department/officers for farming
- Suggestion of suitable crop cultivation on the basis of test report.

Context : Agriculture is the basic occupation and also the backbone of economy of our country. Most of the farmers are cultivating their lands unscientifically. They work hard but the yield which they get is very less than their expectation as a result of this farmers committed suicide. The environment also gets polluted by their land activities such as use of more quantity of fertilizers and Water. This is mainly due to lack of knowledge in using fertilizers and manures and also standards' of soil and water. To help the parents of students admitted to our college having rural and agriculture background, this practice is selected.

Practice : Under the guidance and support of management and principal 24 soil and 22 water samples were collected from the students of farmers family of various villages for soil and water testing. The samples were collected according to the instructions of agriculture department. The samples were listed and labeled systematically, then sent for testing of soil and water to the UAS, Agriculture Science Centre, Vijayapur on 16.10.2019. The test reports of samples were received from soil science department, Agriculture science centre, on 30.10.2019. With these reports we contacted Shri.M.H.Yarazari, Assistant Director of Agriculture Department, Muddebihal and Smt. Rajeshwari. Nadagoudar, Technical Officer, Agriculture Department Muddebihal. The College has arranged a programme for giving information about test reports by these officers on 15-03-2020. The Assistant Director and Technical officer guided and distributed test reports to student's parents. The function was more informative and fruitful for students, parents and faculty members. Farmers obtained the reports of soil and water test free of cost. The entire expenses of Rs. 20,000/- borne by the management. We are intended to collect 100 water and soil samples but we couldn't reach the target.



Evidence of Success :

- This best practice motivated farmers to consult agricultural officers and to attend the programmes organised by the Agricultural Department.
- Farmers become aware of the proper use of fertilizers and water.
- Farmers were motivated test soil and water periodically for farming
- Positive feedbacks from farmers.

Problems Encountered:

- Reluctance of farmers in providing water and soil samples timely.
- Lack of knowledge of method of collection of water and soil samples.
- Covid – 19 pandemic was the hurdle to organise the final program on time.
- Dearth of knowledge of farmers as to collect soil and water samples.

Strategies to overcome the Problems :

- Instructed our students the methodology of sample collection and motivated them so as to enable their parents to provide water and soil samples on time.
- Scheduling and Rescheduling the programmes as per the convenience of farmers and agriculture Officers/department.
- Purveyed the management to bear the charges of soil and water test.

Resources Required:

- Financial support.
- Availability of Testing Labs and department officers.
- Human resource to train the farmers.

Impact of Practice :

- The farmers equipped with modern knowledge of farming.
- The practice made the farmers confident about proper use of fertilisers, water and crop rotation.
- This Practice resulted in proper management of water and soil resources so as to get better crop yield.

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