

**R. A. Arts, Shri M. K. Commerce and Shri S. R. Rathi Science Mahavidyalaya,  
Washim  
Best Practice-I**

**Title of Practice: - "Microbiology Social Agro Consultancy Services"**

**Goal: -**

To provide free social consultancy services to promote the scientific knowledge for the benefit of the community

**3. The context: -**

The agriculturists in India are facing a big problem of supplying food to ever increasing population as agricultural land is decreasing due to fast growing urbanization and industrialization. The food we consume is contaminated due to extensive use of pesticides/insecticides/chemical fertilizers. The quality of soil is also degraded. These problems need to be addressed. An alternative solution to overcome above problems is to use organic soil amendments, wherein use of compost and harmless biopesticide are promoted.

Microbiology department has started the free research consultancy services to promote the analysis required by the research scholars. The department is providing the bio identification of the cultures, toxicological analysis, PCR for genomes, HPLC analysis and nanoparticle generation etc. Number of researchers is communicating the department for this facility & benefited too.

**4. The practice:**

We give advice, information and training for the utilization of bio-pesticide and bio-fertilizer among the farmers of Washim district. With the view to increase agricultural productivity we recommend low cost policy and technology transfer to improve the soil fertility by utilizing the home made compost by farmer himself. We also help the farmer by helping him in the soil analysis and recommending him with a beneficial agro practices in coordination with Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola.

We also interact with state government agricultural department, Washim district and also with NABARD as an advisory member for the promotion of biofertilizer and biopesticide among the farmers.

We help the farmer by analyzing the quality of commercially available bio inoculants.

Staff & students of the department of our college initiated the concept of consultancy. All small rooted crops can be cultivated to increase large yields such as chilies, brinjal, tomato, spinach, coriander, fenugreek, cucumber, bitter gourd, cabbage etc. by Bio-fertilizer and biopesticide.

**5. Evidence of Success:**

The visits of the local farmers have increased in the department and these farmers are expressing their regular participation to use the bio pesticides and bio fertilizers in their farms. In this correlation the documentation of the visiting farmer has been acknowledged to enlighten their farm and address.

Thereafter, the research consultancy about the analysis of bimolecular analysis has benefited the researchers from not only of home institute but also from the other institutions and in this connection the evidential documents has with the department, as well as the regular enquiries are also increased for the analysis.

**Problems encountered and resources required:**

Due to regular teaching work load as our main liability, we can't expand the consultancy work hence, limited call were attended per year in cropping period.

**Notes:**

The read to use material in local language has been prepared for the distribution purpose.

**Contact Details:**

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