

Field Assessment and Monitoring Activities Under Model Village Programme at Rajpur, Aligarh, Uttar Pradesh

The model village Rajpur, Aligarh, Uttar Pradesh was visited by the following scientists and staff from CATAT:

Dr. Nafees Ahmad, Senior Scientist

Dr. S. Chakravorty, Senior Scientist

Dr. Pratibha Joshi, Scientist

Mr. P. P. Maurya (Technical Officer)

Following activities were undertaken at project location

- i. Distribution of lime saplings.
- ii. Refurbish the agro-library.
- iii. Monitoring of field and advisory.

The villagers were met at the library facility provided at the village Rajpur. New books were added to the stock and the benefits from each new book was described to the farmers.

Farmers were provided lime saplings for nutrition garden.

The orchards at village were visited and the problem of fruit cracking in sour lime was addressed.

Concerned scientist provided following control measures were conveyed to the farmers:

- i. Uniform, controlled water supply to be maintained throughout the year.
- ii. Spray of borax @2gm/L of water or multimineral mixture (Multiplex).
- iii. Suggested flat pan with grassy bunds around all fruit plants.
- iv. Ca/B analysis of leaf was also suggested.

Pruning and canopy management were suggested for all fruit trees.

Use of composting microflora consortia suggested for manure preparation in windrows in orchard and field.

Plant protection advisory were also provided to the farmers :

- Explained the benefits, advantages and preparation method of cattle dung-urine decoction, NSKE and Chilli-garlic extract for pest management.
- Explained the mode of action of pheromone trap and their different uses as monitoring tool and mating disruptor in different crops.
- Suggested IPM tools and pesticides for BFSB in brinjal and okra.
- Supplied pheromone trap and lure septa for rice for two acres and brinjal crop (0.5 acre).
- Visited rice field and explained the benefit of following ETL and continuous monitoring for environmental safety and cost reduction.
- Nominal leaf folder infestation and almost no YSB infestation found in fields. Pesticide application history unclear.
- During monitoring of guava orchard, one tree was infested with trunk borer. Spray of systemic insecticide and injection with DDVP/rogor/Kerosene suggested.

- Hoppers on underside of leaves and BFSB larvae at the terminal shoots found in brinjal field.
- Tobacco mosaic virus and Cercospora leaf spot disease affected plants are rampant in the field.
- Some plants in 0.5 acre field was found with inconspicuous leaf curl on apical leaves. Farmers complain about profuse flowering but no fruiting in those plants.
- Suggested IPM measures for BFSB and suitable insecticides (shoot clipping, spray with emamectin benzoate).
- Stressed upon application of cattle dung-urine decoction and NSKE as foliar spray.
- Visited cucurbit field of Pusa Naveen as demonstration. Field was mostly infected with downy mildew. Strongly suggested crop cultivation on scaffoldings for clean and healthy crop.

