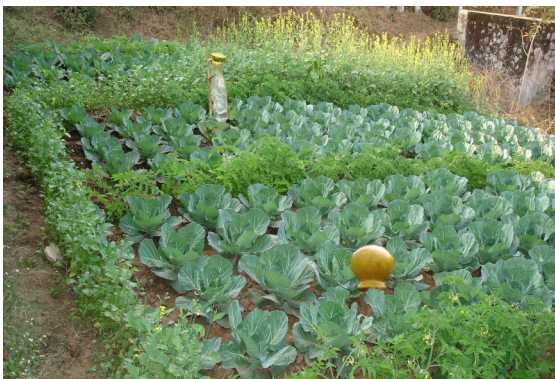


IPM in Cole crops-A cost effective and eco-friendly strategy for productivity enhancement

Vegetable based cropping system is one of the predominate farming system in Keonjhar district, on which majority farmers depend as their source of livelihood. Among the vegetables, cole crops i.e. cabbage and cauliflower occupy a sizable area of 7600 ha and are cultivated both in kharif (as off-season vegetable) and rabi season. High incidence of insect pest particularly Dimond back moth, leaf webeer, aphids, cabbage caterpillaer cause extensive damage and reduced the yield and quality of the produce. Farmers often rely on the chemical pesticides to combat the pest menace, but indiscriminate application of highly toxic chemical pesticides not only undermine the sustainability of agro-ecosystem but also endangers human health due to residual toxic effect. Realizing the gravity of this problem, KVK, Keonjhar conducted one Front Line Demonstration on IPM in cabbage in its adopted village Basudevpur, by demonstrating the various components of IPM like trap cropping with mustard, intercropping with tomato, installation of Pheromone trap and yellow sticky trap and need based application of target specific safer pesticides like Bt and Fipronil. It has been observed that the yield in the demonstrated plot is found to be 10.4% higher compared to the local check (191q/ha in the demonstrated plot and 173q/ha in the local check) with significant reduction in the damaged head percentage (11% in demo plot and 23% in local check). The farmers of the village are convinced with the effectiveness of the technology in minimizing the pest incidence with lesser cost of plant protection and minimum damaged to the natural eco-system. KVK organized field day by inviting the extension officials and other farmers of adjoining villages for further dissemination of the technology to other areas. Within one year of interventions 30 farmers of four villages are now started adopting the technology.



IPM module against pest complex of cabbage

1. Trap crop with mustard
2. Intercrop with tomato
3. Installation of Pheromone trap and yellow sticky trap
4. Alternate application of Bt and Fipronil