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Success Story on Integrated Crop Management in Chilli

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Chilli crop is being grown in an area of 62,559 ha in Kurnool district. Farmers are grown private hybrids and the crop is affected due to many biotic constraints of which wilt, sucking pests, viral diseases and leaf eating caterpillars are the major constraints affecting the crop drastically. To manage the crop and to harvest higher yields, the farmer apply heavy doses of complex fertilizers at different stages of the crop and also depend only on chemicals for management of insect pests and diseases. This lead to high cost of cultivation besides affecting the soil health and poor net returns. Having realized this problem Mr. G.P.NAGIREDDY approached KVK, Banavasi for suggestion.

Approaches, interventions and outcomes:

Mr. G.P.NAGIREDDY, a small farmer of Jaggapuram (V), Gonegandla (M), Kurnool District. He visited KVK, Banavasi, Kurnool (Dis…) for getting advisory for the management of fruit rot, black thrips, viral diseases, sucking pests of chilli crop. The KVK has extended end to end technical support and advised him to follow deep summer ploughing to expose pupae, incorporation of green manure crop, seed treatment with Trisodium orthopasphate @150 g/kg of seed, nursery management, nursery treatment while transplanting, balanced use of recommended dose of fertilizers, IPM practices like growing sorghum as border crop for controlling sucking pests, marigold as trap crop @ 1:20 (1 row marigold + 20 rows chilli), use of blue and yellow sticky traps (20/acre), pheromone traps @ 4/ac, spraying of *Beauveria bassiana / V. lecanii* @ 5 gm per liter water and NSKE 5% at 15 days interval from vegetative stage to flowering stage and need based pest and disease control measures like spraying of Propiconazole 200 ml/ acre, Hexaconazole 100 ml/ acre, Fipronil + Imidacloprid 40% @ 400 gm/acre; Fipronil 80WG @ 100 gm/acre; Spinetoram @ 400 ml/acre; Spirotetramat @ 250 ml/acre; Diafenthiuron+Acetamiprid @ 300 gm/acre; Diafenthiuron+Bifenthrin @ 200 ml/acre. For control of fruit rot, black thrips, viral diseases, sucking pests etc. The support was provided through various training programmes, method demonstrations and regular field visits.

Outcomes / Economics

Adaptation practices of Mr. G.P. NAGI REDDY compared with other farmers (2021-22).

Parameter	Mr. G.P. Nagi Reddy practices	Other farmers practices
Yield (q/acre)	19.80	17.60
Sale price (₹/q)	12,000	12,000
Gross Income (₹)	2,37,600	2,11,200
Cost of cultivation (₹)	1,50,088	1,67,500
Net income (₹)	87,512	43,700
B:C ratio	1.58	1.26

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Farmer has obtained 87,512 /- additional net returns with B: C ratio of 1.58 compared to other farmerspractice. He also saved 17,412 /- towards cost of chemical pesticides and fertilizers due to adoption of ICM technology. He expressed happiness on this achievement and also acting as contact farmer to KVK and spreading technologies to other farmers.

Distribution of inputs to the farmer

Field visit to the farmer