Name of the technology : **Integrated management technologies for bud worm**

Year (s) of development : 2018-2023

Technology details

Tobacco budworm, *Helicoverpa armigera* (Hubner) is one of the major insect pests of FCV tobacco causing damage above economic threshold level (> 10 % infestation) in southern black soil (SBS) region of Andhra Pradesh. For the effective management of tobacco budworm, *Helicoverpa armigera* an Integrated pest management (IPM) approach consisting of 2 rows of marigold as trap crop around tobacco, setting up of bird perches @ 20/ha, hand picking of larvae for every 5 days from 25 days after planting (DAP), spraying of NSKE 2% at 25 DAP, spraying *Helicoverpa armigera* Ha NPV @ 250 LE/ha at 40 DAP and one spray of chlorantraniliprole 18.5 SC @ 0.005% at 55 DAP is recommended.

Impact of the technology

This technology impacted the FCV grown in an area of 30,000 ha in Southern Black Soils (SBS) of Andhra Pradesh and 70% tobacco farmers of SBS were benefitted. Integrated pest management reduces production costs of tobacco farmers through reduced levels of pesticide use. This technology shows 6.07% increase of cured leaf yields with benefit cost ratio of 2.42 over untreated control.

Publications/commercialization

- ICAR-CTRI Annual Report 2018 (p.55).

Investigators/Developers

P. Venkateswarlu, U. Sreedhar, V. Venkateswarlu, B. Sailaja Jayasekharan and K. Rajasekhara Rao