Application of Fluopyrum 400 SC @ 0.05% for management of root knot nematode, *in* FCV tobacco crop

Novel nematicidal molecules, Fluopyrum 400 SC, Fluensulfone 2% G & Carbosulfan in differential doses were evaluated with carbofuran 3G as chemical check against root knot nematodes in FCV tobacco, both under nursery and main field conditions. Experimental results revealed that Fluopyrum 400 SC at all tested concentration were on par with each other and were significantly superior to other chemicals in recording reduced root knot disease incidence. Under FCV tobacco nursery conditions, Fluopyrum 400 SC @ 0.05% recorded reduced root knot disease incidence (i.e.) RKI of 1.49 as compared to 3.81 in untreated check. Similarly, it caused 44.2% reduction in nematode soil population and 25.1% increase in root knot free transplantable seedlings as compared to check. Similarly, under root knot nematode sick field conditions with mean root knot nematode population of 105 second staged juveniles per 100 cc soil, Fluopyrum 400 SC at tested concentrations were found on par in reducing the root knot disease incidence (RKI) and was to be significantly superior to Fluensulfone 2%G in reducing root knot nematode incidence and in improving the quality cured leaf yield in main field crop. Fluopyrum 400 SC @ 0.05% significantly reduced the root knot disease (RKI) to 1.56 as compared to 3.64 in untreated check. The subsequent increase in Cured Leaf Yield of FCV tobacco was to the tune of 24.1% as compared to check.

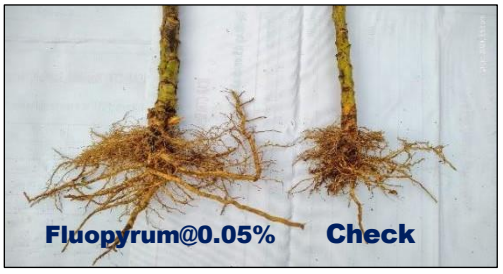
- Effective Nematode Management in both nursery and main field conditions
- Availability of root knot free seedlings for timely planting.
- Enhanced tobacco cured leaf yield in terms of quality and quantity in the field crop.

This technology is highly user friendly and be used in both nursery and main field of FCV tobacco for the effective management of root knot nematodes.

a. Fluopyrum@0.05% Carbofuran Check (Nursery)

b. Fluopyrum@0.05

3c.Check



d. Field Crop