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RESEARCH PAPER

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Integrated disease management of damping-off and wilt disease of chilli (*Capsicum annuum* L.)

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ABSTRACT

Chilli (Capsicum annuum L.) is one of the most important vegetable among solanacious group like potato, tomato etc. Most of the promising chilli cultivars grown in nursery are under a great threat for profitable cultivation due to the attack of several abiotic and biotic factors viz., fungi, bacteria, virus and nematodes. The major losses of chilli in nursery stage are covered by fungi, in which damping-off and wilt disease of chilli caused by Fusarium oxysporum f.sp. capiscum is more important diseases. For the management of damping-off and wilt of chilli to produce healthy seedlings of Chilli free from damping-off and wilt disease, there was a need to develop new technology for better management in nursery stage an experiment was conducted at different places/ first at nursery and other in main field of Vegetable Research Farm for two years with ten treatments and three replications. The treatment of maximum seed germination (84.34%), root length (21.97cm), shoot length (16.19cm), viguor-index (3217.46), minimum damping-off disease incidence (6.49%), wilt disease incidence found in main field (0.00%) and maximum red ripe fruit yield 30.19 g/ha was recorded in (T_{o}) Fenamidone + mancozeb (0.25%) drenching, next best effective treatment were (T_ea) seed treatment with (Carbendazim + mancozeb) 1.5g/kg seed + drenching of nursery (0.1%) and (T₂) use of Pencycuron 1ml/lit. in drenching which were statistically at par in case of seed germination, disease intensity andred ripe fruit.

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