

## **Efficacy of Indigenous Materials and Profenophos Combinations against *P. Solenopsis* under Laboratory Conditions**

**B Lavanya, B Ratna Kumari, T Madhumathi and V Prasanna Kumari**  
Department of Agricultural Entomology, Agricultural College, Bapatla, A. P.

### **ABSTRACT**

A present study were conducted to evaluate the efficacy of different kinds of indigenous materials and combinations against mealy bug, *Phenacoccus solenopsis* Tinsley (Pseudococcidae: Hemiptera) at laboratory condition during 2018 - 19. Different concentrations of soap solution, starch, neem oil and NSKE and their combinations with profenophos were tested for their effect on *P. solenopsis* crawlers and adults by leaf dip method of bioassay. Combinations treatments of profenophos and indigenous material revealed that the treatment neem oil + profenophos was found to be the most effective against the *P. solenopsis* crawlers and adults as it had recorded high mean per cent mortality (92.86 per cent & 85.96 per cent). The treatment starch + profenophos was least effective combination against the *P. solenopsis* crawlers and adults with mean per cent mortality of 87.72 per cent & 82.72 per cent, respectively.

**Key words:** *Combinations, Efficacy, LC<sub>50</sub> and LC<sub>90</sub> values, Lethal concentrations, Indigenous materials, Phenacoccus solenopsis, Profenophos,*