CONTACT TOXICITY OF COMMONLY USED INSECTICIDES AND NEW MOLECULES AS PER RECOMMENDED DOSE FOR CROP PESTS AGAINST INDIAN HONEY BEE, *APIS CERANA INDICA* FABR. IN LABORATORY CONDITION

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Abstract: The effect of insecticides on honey bee population was observed least mortality in neem oil, flubendiamide, thiamethoxam, and imidacloprid at 6 hour after treatment. However, the lowest mortality was recorded in neem oil (2.5%) during 12 hour after treatment whereas neem oil and fipronil was found safer at 24 hour after treatment whose mortality was 2.5 and 7.5 per cent, respectively. Thus neem oil was found safest for Indian honey bee. The bio-pesticides (neem oil) and phenyl pyrazole (fipronil) had least negative effect on Indian honey bee whereas the phosphamidon, monocrotophos, chlorpyriphos, profenophos and cypermethrin were highly toxic.

Keywords: *Apis cerana indica*, Toxicity, Insecticides, Laboratory

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