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(57) Abstract :

This invention presents Dose optimization of Novel Insecticidal Compound (Chlorantraniliprole 600 SC) for the Control of Lepidopteran Pests in Groundnut. The present invention comprising of a data collection module to record and monitor pest infestation levels, crop damage data, and Chlorantraniliprole 600 SC application, a computational module employing data analytics, statistical modelling to analyse the collected data and determine the optimal Chlorantraniliprole 600 SC dosage for effective Lepidopteran pest control, a feedback module to provide recommendations for the application of the determined optimal dosage to enhance Lepidopteran pest control in groundnut farming, and a user interface to communicate the optimized dosage recommendations to farmers and agricultural practitioners. Accompanied Drawing [FIG. 1-2]

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