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# Effect of different levels of fertigation and pesticide application on growth and yield of chilli cv. SITARA

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**ABSTRACT :** The present investigation entitled “effect of different levels of fertigation and pesticide application on growth and yield of chilli cv. SITARA.” was carried out during *Rabi* season of the year 2012 on the open field of ASPEE, Agricultural Research and Development Foundation, year-2012, Tansa farm, Maharashtra. The experiment was laid out in Randomized Block Design. The five treatments (Control, 60% RDF + Indoxacarb @ 30g a.i. /ha, 80% RDF + Indoxacarb @ 40g a.i. /ha, 100% RDF + Indoxacarb @ 50g a.i. /ha and 120% RDF + Indoxacarb @ 60g a.i. /ha) were replicated five times. The plant height at 45 DAT (19.04 cm), 90 DAT (42.26 cm) number of branches per plant at 45 DAT (3.37), 90 DAT (5.36) was found maximum with 120 % RDF + Indoxacarb @ 60g a.i. /ha. The highest number of fruits per plant (66.32), fruit weight/plant (172.07 g) and yield t ha<sup>-1</sup> (12.86) was found in treatment T<sub>5</sub> 120 % RDF through fertigation. While, lowest number of fruits per plant (50.31), fruit weight / plant (123.07 g) and yield t ha<sup>-1</sup> (9.07 t ha<sup>-1</sup>) was found in treatment control. The treatment 120 % RDF through fertigation registered maximum gross return (2,57,200 Rs./ hectare), net return (2,05,107.97 Rs./hectare) and benefit: cost ratio (3.94:1) whereas, control recorded minimum for that. The data clearly revealed that the yield obtained with treatment T<sub>5</sub> (120 % RDF as fertigation) was significantly higher than all other treatments and also for growth parameters.

**KEY WORDS :** Fertigation, Pesticide application, Growth, Yield, Chilli cv. SITARA

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