



Research Paper

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Effect of integrated nutrient management in papaya (*Carica papaya* L.) cv. MADHUBINDU

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ABSTRACT : The present investigation was conducted to study the effect of integrated nutrient management in papaya cv. Madhubindu at Department of horticulture. The experiment was laid out in Randomized Block Design with total fourteen treatments combinations including different organic and inorganic nutrient were comprised with three replications. The results revealed that the applications of 1/2 RDF (100:100:125 NPK g/pl) + *Azotobacter* @ 50 g/pl + PSB @ 2.5 g/m² (T₈) enhanced the growth and yield parameter like highest survival per cent (98.67%), plant height at flowering and harvesting stage, stem girth at flowering and harvesting stage, number of leaves at harvesting stage (24), lower days taken to first flower and first fruit harvest, maximum harvesting span (104 days), fruit length (30 cm), fruit girth (22 cm), highest fruit weight (1670 g), maximum number of fruit/plant (45.33), fruit yield per plant (78 kg), fruit yield per plot (313 kg), fruit yield per hectare (259.97 ton) and marketable fruit yield/plot (299 kg). Similarly, qualitative parameter like reducing, non reducing and total sugars (11.10, 2.43 and 13.58 %, respectively) and total soluble solids (15.47 °B) were also noted highest in same treatment. However, it was found at par with 1/4 RDF + 3/4 *Jivamrut* (T₁₃). Likewise poor performance was observed in control for all parameter.

KEY WORDS : Papaya, Integrated, Nutrient, Vermicompost, Castor cake, *Jivamrut*, *Azotobacter*, PSB

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