**EFFECT OF FERTIGATION SCHEDULING AND COST ECONOMICS IN THREE CULTIVARS OF GUAVA (PSIDIUM GUAJAVA L.) UNDER ULTRA HIGH DENSITY PLANTING IN CHHATTISGARH**

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**Abstract:** Field experiment was carried out during the year 2014-15 in winter season at research field of Precision Farming Development Centre (PFDC) of Department of Horticulture, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.) to study the effect of drip irrigation and fertigation scheduling on performance of three cultivar of guava (*Psidium guajava L.*) in ultra high density planting. The experiment was conducted with three varieties (Lalit, Allahabad Safeda and L-49) along with three levels of fertigation scheduling (60% RDF, 80% RDF and 100% RDF). The benefit-cost (B: C) ratio was evaluated. Benefit-cost analysis was carried out to determine the economic feasibility of using drip irrigation. The cost of drip irrigation system includes depreciation, prevailing bank interest rate, repair and maintenance of the system. The interest rate and repair and maintenance cost of the system were 12 and 1% per annum of the fixed cost respectively. The useful life of drip system was considered to be 10 years. The cost of cultivation includes expenses incurred in field preparation, cost of seedlings, fertilizer, weeding, crop protection measures, irrigation water and harvesting with labour charges. The B: C ratio was found maximum (2.78) in Lalit cultivar with (80% RDF).

**Keywords:** Fertigation, Guava, UHDP, B: C ratio

**REFERENCES**


