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**Effect of planting date and integrated nutrient management on the**

**production potential of tomato (*Solanum lycopersicon* Mill.)**

**under polyhouse condition**

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**ABSTRACT**

*An experiment was conducted to assess the different date of planting viz; September 15 (D1), September 30 (D2) and October 15 (D3) and different sources of organic and inorganic fertilizers. The result revealed that the growth*

*parameters and yield attributing traits were significantly influenced by different planting dates and sources of*

*nutrients. Planting on September 15 (D1) recorded the highest plant height (254.95 cm),number of leaves per plant*

*(33.47), fruits per plant (80.39), fruit length (6.75 cm), fruit girth (5.53 cm), mean fruit weight (124.26 g), yield per*

*plant (10.39 kg),yield per plot (42.44 kg) and TSS (5.55 ºB) content over later date of planting. The plants treated*

*with 50% RDF +10 t ha FYM + 5 t ha poultry manure + biofertilizer showed maximum number of leaves per plant*

*(36.88), fruits per plant (74.69), fruit length (6.85 cm), mean fruit weight (134.33 g), yield per plant (10.77 kg), yield*

*per plot (38.90 kg) and ascorbic acid content (40.02 mg/100g) over treatment having 100% RDF alone. Among*

*interaction the plants planted on 15th September along with 50% RDF +10 t haFYM + 5 t haPoultry manure +*

*biofertilizer resulted better yield and quality traits.*

***Keywords***: *Nutrients, planting date, quality, tomato, yield*