

## EFFECT OF FYM, N P K AND MICRONUTRIENTS ON YIELD OF TOMATO (*LYCOPERSICON ESCULENTUM* MILL.) CV. HEEM SOHNA UNDER PROTECTED CULTIVATION

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### ABSTRACT

The experiment was carried out in vegetable Research Farm, during Mid-November to 8- May with following combination of which was T<sub>1</sub> (control), T<sub>2</sub> (FYM 1.5 kg / m<sup>2</sup>), T<sub>3</sub> (FYM 2.5 kg / m<sup>2</sup>), T<sub>4</sub> (30.86 g N, 18.51 g P and 18.51 g K) / m<sup>2</sup>, T<sub>5</sub> (30.86 g N 18.51 g P and 18.51 g K) / m<sup>2</sup> + FYM 1.5 kg / m<sup>2</sup>, T<sub>6</sub> (30.86 g N 18.51 g P and 18.51 g K) / m<sup>2</sup> + FYM 2.5 kg / m<sup>2</sup>, T<sub>7</sub> (46.29 g N 37.02 g P and 37.02 g K) / m<sup>2</sup>, T<sub>8</sub> (46.29 g N 37.02 g P and 37.02 g K) / m<sup>2</sup> + FYM 1.5 kg / m<sup>2</sup> T<sub>9</sub> (46.29 g N 37.02 g P and 37.02 g K) / m<sup>2</sup> + FYM 2.5 kg / m<sup>2</sup>, T<sub>10</sub> (Micronutrient 2.5ml/l) T<sub>11</sub> (FYM 1.5 kg / m<sup>2</sup> + Micronutrient 2.5ml/l) T<sub>12</sub> (FYM 2.5 kg / m<sup>2</sup> + Micronutrient 2.5ml/l) T<sub>13</sub> (30.86 g N 18.51 g P and 18.51 g K) / m<sup>2</sup> + Micronutrient 2.5ml/l) T<sub>14</sub> (30.86 g N 18.51 g P and 18.51 g K) / m<sup>2</sup> + FYM 1.5 kg / m<sup>2</sup> + Micronutrient 2.5ml/l) T<sub>15</sub> ((30.86 g N 18.51 g P and 18.51 g K) / m<sup>2</sup> + FYM 2.5 kg / m<sup>2</sup> + Micronutrient 2.5ml/l) T<sub>16</sub> (46.29 g N 37.02 g P and 37.02 g K) / m<sup>2</sup> + Micronutrient 2.5ml/l) T<sub>17</sub> (46.29 g N 37.02 g P and 37.02 g K) / m<sup>2</sup> + FYM 1.5 kg / m<sup>2</sup> + Micronutrient 2.5ml/l) and T<sub>18</sub> (46.29 g N 37.02 g P and 37.02 g K) / m<sup>2</sup> + FYM 2.5 kg / m<sup>2</sup> + Micronutrient 2.5ml/l) The cultivar of tomato was "heem shona" syngenta company. The highest fruit weight (73.17 g) was recorded in T<sub>17</sub> and the highest No. fruit per plant (84.33), yield per plant (6.008 kg), total yield per plastic house (220 m<sup>2</sup>) (3.172 tones) was obtained in T<sub>18</sub> treatment.

**KEYWORDS:** Tomato, *Lycopersicon esculentum* Mill, Fruit Per Plant, Fruit Weight, Total Yield and " Heem Sohna "