

Yield Performance of Tomato Var. Arka Rashak (F1): Multilocation Demonstration under Narayanpur District of Chhattisgarh

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Abstract—Tomato (*Solanum lycopersicum*) is cultivated throughout the world especially in India. It is a rich source of Vitamin A and C and is referred as “poor man’s orange”. Lycopene that imparts red colour to ripe tomatoes is reported to possess anticancerous properties. It also contains ascorbic acid and β carotene. Tomato is a versatile vegetable and is used in a variety of ways. Tomato is one of the most sensitive vegetable crops and fails miserably if growing conditions are too harsh. Successful tomato production depends on the selection of varieties that are adapted to different conditions imposed by specific environment. In a tribal district like Narayanpur of Chhattisgarh farmers are not aware about improved varieties suitable for the region. Hence it was felt imperative to find out suitable varieties for its successful cultivation under Narayanpur district of Chhattisgarh as a basic step towards getting higher production. Hence, the present experiment was conducted to study the response of Arka Rakshak which is an improved variety of tomato in a tribal district like Narayanpur in 2015-16 in RBD in ten replication with spacing 60 x 30 cm. Transplanting has been done in the last week of January. The mean yield performance of variety was having yield of 376.43 q per hectare as compared to local variety (226.50 q/ha) grown for cultivation. Hence, Arka Rakshak with red/orange colour, good berry size and good yield is advocated for cultivation in large scale at Narayanpur district of Chhattisgarh and it gives good opportunity for increasing the income of many tribal farmers.

Keywords: Tomato, *Solanum lycopersicum*, yield performance, Narayanpur District.