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EFFECT OF VERMICOMPOST AND *AZOTOBACTER* ON QUALITY PARAMETERS OF STRAWBERRY (*FRAGARIA* X *ANANASSA* DUCH.) CV. SWEET CHARLIE

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ABSTRACT

The present study was conducted to find out the effect of vermicompost and *Azotobacter* on quality parameters of strawberry (*Fragaria* × *ananassa* Duch.) cv. Sweet Charlie during 2014-2015. Vermicompost and *Azotobacter* were applied separately and in combination at 100 q/ha and 30 ml/litre water, respectively. Different treatment combination revealed significant positive effect on most of the parameters studied under the experiment. Maximum total soluble solid (10.73 ^{0}Brix), titratable acidity (0.74 %), reducing sugar (4.49 %), total sugars (6.39 %), vitamin-C (69.33 mg/100g) and vitamin-A (60.00 IU/100 g) were recorded in T_4. whereas; maximum TSS: acid ratio (17.05) and sugrs: acid ratio (10.15) was recorded in T_5. Higher contest of pectin (0.57 %) and anthocyanin (58.55 IU/100 g) were observed in treatments 4 and 5, respectively. Conclusively, T_4 (vermicompost 75 % + *Azotobacter* 25%) was found most effective to improve chemical parameters parameters of strawberry cv. Sweet Charlie.

KEYWORDS: Vermicompost, *Azotobacter*, Quality, Sweet Charlie, Strawberry