RESEARCH ARTICLE

COMPARATIVE EFFICACY OF DIFFERENT ORGANIC MANURES AND FERTILIZERS ON GROWTH AND YIELD OF KAPOOR TULSI (*OCIMUM KILIMANDSCHARICUM* GUERKE) UNDER MID-HILL CONDITION OF HIMACHAL PRADESH

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Abstract: The present studies were conducted on Kapoor Tulsi (*Ocimum kilimandscharicum* Guerke) during the season of 2017-18 at the experimental farm of Department of Forest Products, Dr. YSP University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh (India). In this experiment ten treatments *viz*., T_1: Control, T_2: FYM (15t/ha), T_3: NPK (120:60:60 kg/ha), T_4: FYM+NPK (15 t/ha + 120:60:60 kg/ha), T_5: Jeevamrutha-desi cow (125 l/ha, 3%), T_6: Jeevamrutha-jersey cow (125 l/ha, 3%), T_7: Panchagavya-desi cow (50 l/ha, 5%), T_8: Panchagavya-jersey cow (50 l/ha, 5%), T_9: Vermicompost (3t/ha) and T_{10}: Vermicompost + NPK (3 t/ha + 120:60:60 kg/ha) were evaluated in RBD design with three replications on growth and yield of Kapoor tulsi. The results revealed that the combined application of Vermicompost and NPK (3 t/ha + 120:60:60 kg/ha) produced highest growth and yield followed by $T_4>T_3>T_2>T_7$. The Benefit Cost Ratio (BCR) among the various treatments shows that the NPK (T_3) (120:60:60 kg/ha) was found best (1.69) due to lowest cost and higher yield followed by $T_7>T_8>T_5>T_4$.

Keywords: Manure, Tulsi, Herbage, Essential oil, Growth, Yield

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