



Effect of application of inorganic fertilizers and biofertilizers on growth components and yield traits of coriander (*Coriandrum sativum* L.)

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Abstract : Present investigation regarding the supplementation of chemical fertilizers with biofertilizers for coriander crop was carried out under field condition in Horticulture Research Farm, I.G.K.V. Raipur (C.G.). The experiment was planted in Randomized Block Design (RBD) with the three replications. There were fifteen treatments comprising of different bio-fertilizers with inorganic fertilizers (NPK). Plant height, number of primary branches, number of secondary branches, days taken of 50% flowering, number of umbels per plant, number of seeds per umbel, total number of seeds per plant and seed yield per plant (g) were the important growth and yield contributing characters taken under investigation. The results indicated that vegetative growth contributing characters (plant height, number of primary and secondary branches and leaf area per plant) were influenced by combination of 100%K and 75% NP along with *Azotobacter*, *Azospirillum* and PSB. Yield contributing characters were found maximum in by combination of 100%K and 75% NP along with *Azotobacter*, *Azospirillum* and PSB over the treatments. Hence, it is concluded that the treatment T₈ (75% NP+100%K+*Azotobacter*, *Azospirillum* and PSB) was found economically best (higher yield) than all others treatments studied in this investigation.

Key Words : Inorganic fertilizer, Biofertilizer, Growth, Coriander

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