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Influence of integrated plant nutrition on growth and flower yield of chrysanthemum (*Chrysanthemum morifolium* Ramat.) cv. IIHR-6 under Saurashtra condition

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ABSTRACT : The experiment entitled effect of integrated nutrient management on growth and flower yield of chrysanthemum (*Chrysanthemum morifolium* Ramat.) cv. IIHR-6 was carried out in polyhouse at Department of Horticulture, College of Agriculture, Junagadh Agricultural University, Junagadh during 2011-12. The experiment was laid out in a Completely Randomized Design (CRD) with three repetitions and ten treatment combinations comprising of inorganic fertilizers, organic manures and bio fertilizers. The treatment receiving 75 per cent N + 75 per cent P + 100 per cent K + VC@1.25t/ha + CC@0.875t/ha + *Azotobacter* @2kg/ha + PSB@2kg/ha recorded the highest plant height, plant spread (NS, EW), number of branches, number of suckers, fresh weight and dry weight accumulation; flowering parameters like early flower bud initiation, first flower opening, 50 per cent flowering and longest flowering duration; yield attributes such as number of flowers per plant, flower weight per plant, and flower yield per ha, quality parameters like stalk length, shelf life of loose flowers, vase life of cut flowers and *in situ* longevity. Flower diameter was found maximum with the treatment 100 per cent N + 75 per cent P + 100 per cent K + PSB @2kg/ha.

KEY WORDS : Chrysanthemum, Polyhouse, Bio fertilizer, Growth, Quality, Yield

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