IMPACT OF DIFFERENT SOURCES OF NUTRIENTS ON GROWTH AND FLOWERING IN CHRYSANTHEMUM *(CHRYSANTHEMUM MORIFOLIUM* RAMAT.*)* CV YELLOW GOLD

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Abstract: An investigation was carried out to study the combined applications of different sources of nutrients on vegetative growth and flowering characters of chrysanthemum cv. Yellow Gold. The treatments included *Azospirillum*, PSB, vermicompost and FYM with and without 100, 75 and 50% recommended dose of NPK. The experiment was laid out in Randomized Block Design (RBD) with three replications. The experiment consisted of ten treatments viz. $T_{1:}$ control (with out NPK), T_2 : 100% RDF(150:100:100), T_3: 75% RDF + 25% VC, T_4,: 75% RDF +25% Leaf Manure T_5: 75% RDF + 25% VC+ 2g/plant Azospirillum, T_6: 75% RDF+ 25% VC +2g/plant Azospirillum +2g/plant PSB, T_7: 50% RDF +50% VC T_8: 50% RDF + 50% VC+ 2g/plant Azospirillum, T_9: 50% RDF + 50% VC+ 2g/plant Azospirillum + 2g/plant PSB T_{10}: 50% RDF +50%Leaf Manure + 2g/plant Azospirillum +2g/plant PSB,. Analysis of results revealed that treatment T_4,: 75% RDF+ 25% VC + 2.0 g/plant Azospirillum + 2.0 g/ plant PSB,. significantly induced the days taken to sprouting and increased the height of plant, number of leaves per plant and length of longest leaf per plant. However, treatment T_{10} significantly gave maximum diameter of leaf. Treatment receiving 50% RDF+ 50% VC + 2.0 g/plant Azospirillum + 2.0 g/plant PSB emerged earlier spike while minimum days required for opening of first flower on spike and maximum longevity of spike was observed in treatment T_6. In terms of vase life of cut flowers at room temperature, treatment T_4 shown maximum vase life.

Keywords: Nutrients, INM, Chrysanthemum, Growth and flowering

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