

Effect of integrated nutrient management on flowering and yield of Marigold (*Tagetes erecta*) cv. Pusa Narangi Gainda

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ABSTRACT : A field trial was conducted at the garden of the Department of Floriculture and Landscaping, College of Agriculture, Orissa University of Agriculture and Technology, Bhubaneswar, Odisha, during 2016-17. The experiment was laid out in randomized block design with eight treatments and three replications. The treatments comprised of various combination of RDF (100:200:200 kg NPK/ha), FYM (10t/ha), biofertilizers (*Azospirillum* and PSB both @5 kg/ha). Results revealed that treatment T₇ (75% NPK + FYM + AZO + PSB) found to be significant which recorded minimum days to bud initiation (31.89 days), earliest flowering (46.25 days), maximum numbers of flowers per plant (34.40) and maximum flower yield per plant (145.03gm), yield per plot (2.18kg), yield per hectare (15.53t). Maximum flower diameter (4.87 cm) was found under treatment T₅ (75% NPK +FYM + PSB). Shelf life (70.67hrs) was superior with application of treatment T₆ (75%NPK+FYM+AZO).

Key Words : Marigold (*Tagetes erecta*), nitrogen, phosphorous, potassium, *Azospirillum* and PSB.