



RESEARCH ARTICLE :

Assessment of bio fertilizer through farmers participatory approach for integrated nutrient management in marigold

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SUMMARY : Marigold has earned tremendous popularity as floral crop in Madhya Pradesh particularly at Indore district where it is being commercially cultivated as loose flower at around 2300 hectare in open field condition. With the objectives to address the problem of low yield with poor quality flower of marigold leading to lower economic returns, an assessment of integrated nutrient management with bio fertilizer application in marigold under open field condition was attempted during year 2015-16 and 2016-17 by Krishi Vigyan Kendra, Kasturbagam consisting 10 innovative farmers with three treatment, including farmers practice T_1 (NPK @ 60-90-32 kg/hac), recommended practice T_2 (NPK 200 kg – 100 kg – 80 + 20 tonnes FYM/ha) and modified recommended practice T_3 (NPK @ 150 kg -100 kg - 80 kg + *Azotobacter* and PSB @5kg/Hac + 20 tonnes FYM/ha). Out of three treatment, flower yield under the modified recommended practice (105.1 q/ha) was significantly higher than recommended practice (99.23 q/ha) followed by farmers practice (86.40 q/ha). Similarly gross income (Rs. 157650.00), net return (Rs. 96156.00) and BC ratio (2.56) under modified recommended practice were also recorded significantly higher over recommended practice (T_2) and farmers practice (T_1). Flower diameter in terms of centimetre was recorded highest (3.39 cm) under refinement (T_2) followed by recommended (T_2) 3.06 cm and farmer's practice (T_1) 2.45 cm.

KEY WORDS :

Marigold, On farm trial, Bio fertilizer

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