

Click www.researchjournal.co.in/online/subdetail.html to purchase.



RESEARCH PAPER

Studies on effect of biofertilizers with chemical fertilizers on growth, yield and quality of fenugreek (*Trigonella foenum-graecum* L.)

JITENDRA KUMAR MEENA, SANJAY KUMAR*, SUTANU MAJI, MANOJ KUMAR AND DEVENDRA KUMAR

Department of Applied Plant Science (Horticulture), Babasaheb Bhimrao Ambedkar University, LUCKNOW (U.P.) INDIA (Email : sanjay123bhu@gmail.com)

Abstract : The present investigation entitled studies on effect of bio-fertilizers with chemical fertilizers on growth, yield and quality of fenugreek (*Trigonella foenum-graecum* L.) was conducted at the Horticultural Research Farm, Department of Applied Plant Science (Horticulture), Babasaheb Bhimrao Ambedkar University, Lucknow (U.P.) during the years 2012-2013. Three bio-fertilizers viz., *Azospirillum*, PSB and *Rhizobium* were used at 2 levels of N, P and K as compared with control (recommended dose of NPK through chemical fertilizers) in the fenugreek. The result of all experiment showed that the maximum plant height (36.84 cm), number of branches (3.33), number of pods (7.20), days to 50 per cent flowering (66.33), days to 50 per cent germination (13.00) length of pods (8.53 cm), yield (15.57 q/ha), yield per plant (5.85 g) and days to maturity (145.26) were recorded under 50 per cent RDF+ 50 per cent *Rhizobium* whereas, minimum was recorded under control.

Key Words : RDF, *Azospirillum*, *Rhizobium*, Phosphate solubilizing bacteria (PSB), Fenugreek, Flowering, Maturity and yield.

View Point Article : Meena, Jitendra Kumar, Kumar, Sanjay, Maji, Sutanu, Kumar, Manoj and Kumar, Devendra (2015). Studies on effect of biofertilizers with chemical fertilizers on growth, yield and quality of fenugreek (*Trigonella foenum-graecum* L.). *Internat. J. agric. Sci.*, **11** (1): 198-200.

Article History : Received : 28.10.2013; Revised : 15.12.2014; Accepted : 30.12.2014