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Influence of seed biopriming and organic manure nutrition on okra organic seed production

■ C. KARTHIKA, K. VANANGAMUDI¹ AND K. NAGENDRAN¹

AUTHORS' INFO

Associated Co-author :
'Indian Institute of Vegetable
Research, VARANASI (U.P.) INDIA
Email: vanangamudi.tnau
@gmail.com;
krishnagendra@gmail.com

Author for correspondence:
C. KARTHIKA
Mobile Soil Testing Laboratory,
Palladam, TIRUPPUR (T.N.) INDIA
Email: karthi.aug18@gmail.com

ABSTRACT : Investigation was carried to develop nutrient management technology through biopriming with liquid *Azospirillum brasilense* and organic manures, for organic okra (cv. ARKA ANAMIKA) seed production. In, field experiments conducted by adopting Split Plot Design during two seasons. Seed biopriming with *Azospirillum brasilense* (SP 7) @ 15 per cent for 12h and nonprimed seed formed the main plot treatments. Sub plot treatments viz., inorganic fertilizers, farm yard manure (FYM), poultry manure (PM), vermicompost (VC) were adopted individually and in combinations. Seed biopriming with *Azospirillum* 15 per cent for 12h with recommended dose of fertilizer registered highest seed yield in both the seasons with a per cent increase of 8 to 12 per cent compared to control plots. Among the organic manures, seed biopriming with *Azospirillum* and 100 per cent RDF through poultry manure recorded higher organic seed yield with an increase of 6 to 7 per cent than control. Adoption of seed biopriming and organic manure nutrition to seed production okra showed the B:C ratio of 1:2.1.

KEY WORDS : *Azospirillum brasilense*, Seed biopriming, Organic manure nutrition, Organic seed

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