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RESEARCH PAPER

Evaluating the efficacy of combined application of azospirillum, phosphobacteria and mycorrhiza on the growth parameters of bhendi

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Abstract : An experimental study was conducted to evaluate the efficacy of bioinoculants azospirillum, phosphobacteria and mycorrhiza on the growth parameters of bhendi. The bioinoculants applied to the bhendi crop as seed treatment individually as well as in combination. Using of bioinoculants in combination provided better results in the growth and yield parameters of bhendi crop compared to individual inoculants. The growth parameters in bhendi showed on par results among the experimental treatments, with significant difference observed alone in the shoot length parameter. The shoot length tends to increase from 30 days after sowing and showed significant difference among the treatments. Among the yield parameters of bhendi crop, the fruit yield and biomass produced showed better results when the bhendi crop received the bioinoculants in combination. Use of phosphbacteria and mycorrhiza results in the higher fruit yield compared to other treatments. Whereas the bioinoculants combination of azospirillum and mycorrhiza results in higher biomass production in bhendi crop.

Key Words : Bhendi, Azospirillum, Phosphobacteria, Mycorrhiza

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