

Efficacy of Different Sources of Biofertilizers and N-PGPR on Growth and Vigour of Coffee Seedlings

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SUMMARY

A study was conducted at Coffee Research Sub Station, Chettalli, for a two seasons in randomized block design with three replications to assess the efficacy of different sources of bio-fertilizers and N-PGPR on growth, vigour and development of coffee seedlings and nutrient availability. Results revealed that the combined inoculation of Azospirillum + VAM + PSP + N-PGPR increased the plant height, tap root length, stem girth and dry matter weight of seedlings significantly at all the stages of growth as compared to un inoculated control. Results also revealed that when VAM, PSP, N-PGPR were inoculated with Azospirillum there was significantly increase in plant height, tap root length and dry weight of seedlings at all the stages of crop growth when compared to individual inoculations and un inoculated control. All the bio-fertilizers were found superior individually or in consortia than control with respect to seedlings growth and availability of N, P and K in the nursery mixture after experimentation.