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Response of phosphate solubilizing pseudomonad on the growth of *Abelmoschus esculentus* (L.) Moench

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ABSTRACT : The effect of farm yard manure (FYM), *Pseudomonas fluorescens* biovar PSM1, *Bacillus megaterium* MTCC8755 and dual bacterization was studied on okra plant in the pot experiment, which was arranged in randomized block design. The treated plants were studied after 15, 25, 35, 45, 55, 65 and 75 days of growth for height and dry weight. The 75 days of plant growth showed that dual bacterization enhanced okra height (100.03 mm) and dry weight (32.96 g), which was fairly higher than control. The research objective of this study was to isolate phosphate solubilizing bacteria (PSB) and test the growth effect of most efficient PSB on okra plant.

Key Words: Phosphate solubilizing bacteria, phosphorus, okra.