Research Paper | *The Asian Journal of Horticulture,* **(June, 2010) Vol. 5 No. 1 : 228-230**

Effect of biofertilizer and gibberellic acid on growth and yield of onion

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Accepted : ***May, 2010***

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ABSTRACT

The present investigation was undertaken during *Rabi* season of 2005-06 at Mahatma Phula Krishi vidyapeeth, Rahuri, with a view to work out combined use of biofertilizer and gibberellic acid on seed production of onion cv. PHULA SAMARTH. Result revealed that application of gibberellic acid 50 ppm significantly reduced of number of days for the sprouting, 50 per cent flowering, days for seed harvesting and plant height of flower stalk. Per cent stalk bending was also observed maximum under application of GA 50 ppm. Application of biofertilier (12 kg/ha *Azospirillum* + PSB and 20 kg /ha VAM) significantly improved growth contributing characters such as number of leaves per plant days for bulb sprouting and seed harvesting. Thus by considering over all performance, it is concluded that application of gibberellic acid (100 ppm) along with biofertilizer (*Azospirillium* + PSB 6 kg/ha and VAM @ 10kg/ha) was effective in increasing yield.

Key words : Biofertilizer, Gibberellic acid, Onion, Onion growth, Onion yield