

Effect of integrated management of *Azotobacter*, *Azolla* and urea on growth and yield of rice

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ABSTRACT : Field experiment was conducted to investigate the influence of integrated use of urea and bio-fertilisers on soil properties, crop growth and yield of rice. The observation were made on T₁ (control), T₂ (50% N through urea), T₃ (100% N through urea), T₄ (*Azotobacter* + *Azolla*) and T₅ (50% N through urea + *Azotobacter* + *Azolla*). The experiments on rice were carried in Randomized Block Design with three replications. Characterization of soil physio-chemical properties in terms of pH, EC, organic carbon, available nitrogen, available phosphorus and available potassium were made at different time interval (30, 60 days after plantation (DAP) and at harvest). The important plant parameter such as plant height, number of tiller, grain and straw yield etc. were also obtained in plots received 50 per cent urea N and bio-fertilizers (*Azotobacter* and *Azolla*).

Key Words : Integrated management, Nitrogen, *Azotobacter* and *Azolla*

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