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Assessment of integrated nutrient management with bio-inoculants on soil health, growth and yield attributes of wheat (*Triticum aestivum* L.)

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ABSTRACT : The effect of NPK (0, 50 and 100 %), two levels of farm yard manure (FYM @ 0 and 10 t/ha) and two levels of *Azotobacter* (0 and 200g) was observed on soil health, growth and yield attributes of wheat (*Triticum aestivum* L.). The application of NPK 100, farm yard manure and *Azotobacter* improved the growth (plant height and number of tillers), soil health and gave higher yield with maximum net profit. The interaction among NPK, FYM and *Azotobacter* application was significant with respect to growth, soil health improvement and productivity. The combination NPK100%+ FYM 10 t/ha + *Azotobacter* 200 was significantly better than other combinations in improving soil health, growth and yield attributes of wheat.

Key Words: Wheat, bio-inoculants, organic manure, soil health, production.