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# Effect of integrated nutrient management on yield and phosphorus availability of aromatic rice (*Oryza sativa* L.) in inceptisol of eastern U. P.

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**ABSTRACT :** Field experiment for quality rice production of scented rice variety Pusa Basmati and NDR- Lalmati was conducted on Students Instructional Farm, Narendra Deva university of Agriculture and Technology, Narendra Nagar, Faizabad during *Kharif* season of 2013 and 2014. The treatment were included inorganic and organic combinations viz., T<sub>1</sub>: RDF NPK (100:50:50) × V<sub>1</sub>, T<sub>2</sub>: RDF NPK + 5 tons FYM/ha × V<sub>1</sub>, T<sub>3</sub>: 75 per cent RDF NPK+25 per cent N with FYM × V<sub>1</sub>, T<sub>4</sub>: 75 per cent RDF NPK+25 per cent N with green manure × V<sub>1</sub>, T<sub>5</sub>: 50 per cent RDF +25 per cent FYM- N+25 per cent GM-N × V<sub>1</sub>, T<sub>6</sub>: 20 tons FYM/ha × V<sub>1</sub>, T<sub>7</sub>: RDF NPK (100:50:50) × V<sub>2</sub>, T<sub>8</sub>: RDF NPK + 5 tons FYM/ha × V<sub>2</sub>, T<sub>9</sub>: 75 per cent RDF NPK+25 per cent N with FYM × V<sub>2</sub>, T<sub>10</sub>: 75 per cent RDF NPK+25 per cent N with green manure × V<sub>2</sub>, T<sub>11</sub>: 50 per cent RDF +25 per cent FYM- N+25 per cent GM-N × V<sub>2</sub>, T<sub>12</sub>: 20 tons FYM/ha × V<sub>2</sub>. The treatments were replicated thrice in Factorial Randomized Block Design. The variety Pusa Basmati recorded higher grain and straw yield as compared to NDR-Lalmati in both year of investigation. Maximum grain and straw yield of aromatic rice was recorded under integrated nutrient management of 100 per cent NPK + 5 t FYM followed by treatment T<sub>1</sub> and T<sub>4</sub> in both the years of investigation.

**KEY WORDS :** Aromatic rice, Integrated nutrient management, Organic fertilizer, Inorganic fertilizers

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