

# Response of Direct Seeded Rice (*Oryza sativa* L.) to Brown Manuring and Nitrogen Levels

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## ABSTRACT

A field trial was conducted on sandy clay soil of Agricultural College Farm, Bapatla, during *kharif*, 2018 to investigate the response of dry direct seeded rice to brown manuring and nitrogen levels. Brown manuring with *Sesbania aculeata* (B<sub>1</sub>) recorded the highest panicles m<sup>-2</sup>(393.3), grains panicle<sup>-1</sup>(146.2), filled grains panicle<sup>-1</sup>(131.1), 1000 grain weight (15.6g), grain yield (5754 kg ha<sup>-1</sup>) and straw yield (6676 kg ha<sup>-1</sup>). Among the levels of nitrogen, plots applied with 120 kg N ha<sup>-1</sup>(N<sub>4</sub>)recorded higher yield attributing characters (404.7 panicles m<sup>-2</sup>, 141.2 grains panicle<sup>-1</sup>, 128 filled grains panicle<sup>-1</sup>and 15.7 g test weight) as a result recorded the highest grain (6525 kg ha<sup>-1</sup>) and straw (7569 kg ha<sup>-1</sup>) yield.

**Key words:** *Brown manuring, Dry direct seeded rice, Grain yield, Nitrogen levels and Straw yield.*