

Effect of diverse nutrient sources and liquid organic manures on growth, yield and economics of sesame (*Sesamum indicum* L.)

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ABSTRACT

A field experiment was conducted to study “Organic nutrient management in *rabi* sesame (*Sesamum indicum* L.)” during 2024-25 at the Agricultural College Farm, Naira. The experiment was laid out in a split-plot design with three replications. The study consists of three main plot treatments viz., 100% RDN through inorganic fertilizers, 100% RDN through organics with biofertilizers and biofertilizers alone. The sub-plots included four foliar applications: Vermiwash, *Panchgavya*, *Jeevamrut* and water spray. The results showed that inorganic nutrient application (100% RDN) significantly improved growth, yield attributes and seed yield of sesame compared to organic and biofertilizer treatments. Among the foliar sprays, *Jeevamrut* @ 10% proved most effective, enhancing plant height, branching, dry matter, yield attributes and yield. The study concludes that integrating 100% RDN through inorganic fertilizers with foliar application of *Jeevamrut* is the most suitable practice for maximizing productivity and profitability of sesame in the *rabi* season.

Keywords: *Biofertilizers, Jeevamrut, Organics, Panchgavya, Sesame and Vermiwash*