

## EFFECT OF NITROGEN AND SULPHUR LEVELS ON PRODUCTIVITY AND QUALITY OF RADISH UNDER DRIP IRRIGATION

Shiv Chand Bawaliya, R.K. Jakhar\*, Suresh Kumawat, M.K. Rojh, Shankar Lal Sunda and Amit Kumawat

College of Agriculture, Swami Keshwanand Rajasthan Agricultural University, Bikaner  
Email: rkjakhar33@gmail.com

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**Abstract:** A field experiment was conducted at Research farm, Agricultural Research Station, S K Rajasthan Agricultural University, Bikaner during *rabi* season of 2019-20 on loamy sand soil. The experiment comprising four levels of each nitrogen (Control, 40, 60 and 80 kg ha<sup>-1</sup>) and sulphur levels (Control, 15, 30 and 45 kg ha<sup>-1</sup>) making 16 treatment combinations replicated three times in factorial randomized block design. Application of 60 kg N ha<sup>-1</sup> recorded significantly higher yield attributes, yield and chlorophyll content of radish over control and 40 kg N ha<sup>-1</sup> and remained statistically at par with 80 kg N ha<sup>-1</sup>. Increasing levels of nitrogen significantly decreased pungency level in root up to 60 kg N ha<sup>-1</sup>, yet, it was statistically at par with 80 kg N ha<sup>-1</sup>. The increasing level of sulphur up to 30 kg S ha<sup>-1</sup> significantly increased the yield attributes, yield and chlorophyll content of radish and was at par with 45 kg S ha<sup>-1</sup>. Pungency level in root increased significantly as a result of increasing levels of sulphur up to 45 kg S ha<sup>-1</sup> over rest of all applied treatment.

**Keywords:** Chlorophyll, Nitrogen, Pungency, Radish, Sulphur

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\*Corresponding Author

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