



## RESEARCH PAPER

# Effect of nutrient management on growth, yield and quality of *Kharif* groundnut

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**Abstract :** Agronomic investigation was carried out to study the influence of nutrient management on growth yield and quality of *Kharif* groundnut. The results revealed that, the balanced nutrition through STCR equation proved its superiority by recording significantly maximum growth and yield attributes during both years. Application of fertilizer as per STCR (25 q ha<sup>-1</sup>) equation recorded maximum and significantly higher dry pod yield (23.08 and 24.49 q ha<sup>-1</sup>) than recommended dose of fertilized during both years. This indicates that, the application of fertilizer dose as per soil test crop response (STCR) equation achieved the yield target of 25 q ha<sup>-1</sup> in *Kharif* groundnut with less than 10 per cent variation (-5.8 %). The maximum oil content (50.04 and 50.22%) was recorded under application of fertilizer dose as per soil test and maximum protein content (25.61 and 25.67%) was observed in fertilizer dose as per STCR equation and at par with fertilizer dose as per soil test during both the years. Application of fertilizer as per STCR equation to *Kharif* groundnut registered significantly higher total uptake of nitrogen (124.48, 126.58 kg ha<sup>-1</sup>), phosphorus, (25.93 and 25.97 kg ha<sup>-1</sup>) and potassium (77.53 and 78.92 kg ha<sup>-1</sup>) than rest of treatments.

**Key Words :** *Kharif* groundnut, Nutrient management, Dry pod, Quality, Nutrient uptake

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