## Response of Hybrid Pigeonpea (*Cajanus Cajan* L.) to Planting Geometry and Nitrogen Levels

Sd Sabeeha Sultana, P Venkata Rao, M Sree Rekha and V Srinivasa Rao

Department of Agronomy, Agricultural College, Bapatla, A.P.

## ABSTRACT

A field experiment was conducted during *kharif*, 2017 at Agricultural College Farm, Bapatla to study the response of hybrid pigeonpea to planting geometry and nitrogen levels. The results revealed that the hybrid pigeonpea (ICPH-3762) recorded significantly higher seed yield (1820 kg ha<sup>-1</sup>) at a plant geometry of 180 cm x 20 cm which was 13.11% higher as compared to wide plant geometry of 180 cm x 40 cm. The nitrogen level of 60 kg ha<sup>-1</sup> resulted in higher seed yield (1853 kg ha<sup>-1</sup>) which was 18.10% higher to lower nitrogen level of 20 kg ha<sup>-1</sup> and was on a par with 40 kg N ha<sup>-1</sup>. The maximum return per rupee investment was also obtained at a plant geometry of 180 cm x 20 cm with application of 40 kg N ha<sup>-1</sup>.

Key Words: Hybrid pigeonpea, Planting geometry, Nitrogen levels.