



RESEARCH PAPER

Engineering properties of red gram (*Cajanus cajan*)

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Abstract : Engineering properties of red gram are important for designing the seed hopper food processing equipments and storage bin. Physical and mechanical properties of red gram as a function of moisture content in the range of 10.10 to 20 % (d.b). The average length, width, thickness, geometric mean diameter, sphericity, thousand grains weight and angle of repose ranged from 6.90 to 8.40 mm, 5.10 to 7.90 mm, 4.10 to 6.30 mm, 6.50 to 7.70 mm, 0.85 to 0.92, 97.30 to 105.30 g and 27.30 to 29.10° as the moisture content increased from 10.10 to 20 per cent d.b., respectively.

Key Words : Red gram, Moisture content, Engineering properties, Seed hopper

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