

Engineering properties of jackfruit seed

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■ **ABSTRACT** : India has annual production of jackfruit amounting to 1.436 million tons with a production area covering 0.102000 million hectares. Upto 500 seeds can be found in a single fruit. Seeds make-up around 10 to 15% of the total fruit weight and have high carbohydrate and protein contents. The seeds are generally eaten in boiled or roasted form or used in many culinary preparations. The average moisture content of jackfruit seed was found 31.10 % (w.b.). The average length came between 23.26 mm to 32.46 mm. whereas the breadth was ranged between 13.16 to 21.64 mm. The thickness was in between 7.34 to 14.56 mm. The average geometric mean diameter was 15.43 mm to 18.99 mm. And the sphericity was found between 0.54 to 0.791. The jackfruit seed showed average bulk density as 460 k g/m³. Whereas the true density was lying between 500 kg/m³ to 1200 kg/m³, while average porosity came as 46.51%.

■ **KEY WORDS** : Jackfruit seed, Length, Breadth, Thickness

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