

Performance evaluation of specific gravity separator

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■ **Research chronicle** : Received : 24.10.2017; Revised : 09.11.2017; Accepted : 23.11.2017

SUMMARY :

The research was carried out to evaluate the cleaning efficiency of specific gravity separator (SGS) for gram seed. Seeds consist of various contaminants like weed, other crop seed and other material like stems, leaves, broken seeds and dirt. Vijay variety of gram seed was analyzed for different physical properties. Data shows that average moisture content of gram seed was found to be 12.3 per cent (wb). The weight of thousand gram seed was found to be 178.80 g. Average geometric mean diameter of gram seed was found to be 0.37cm. Average sphericity of gram seed was found to be 0.68. The specific gravity of gram was found to be 0.84. The angle of repose of gram seed was found to be 30.6.° Average cleaning efficiency of specific gravity separator for gram seed was found to be 65.13 per cent.

KEY WORDS : Specific gravity separator, Physical properties, Gram seeds, Moisture content

How to cite this paper : Chaudhari, A.P., Dhake, K.P. and Bari, M.R. (2017). Performance evaluation of specific gravity separator. *Internat. J. Proc. & Post Harvest Technol.*, **8** (2) : 108-112. DOI: 10.15740/HAS/IJPPHT/8.2/108-112.