

# Development of peeling machine for ginger, potato and sweet potato

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Received : 20.06.2018; Revised : 06.08.2018; Accepted : 22.08.2018

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■ **ABSTRACT** : In India agriculture is the most important sector for their economy. Agriculture area of India is tropical so several tropical crops are cultivated like fruit and vegetable, from tubers and roots below the surface of the soil. In this tuber and root crop major crops are potato, sweet potato, beet, ginger and other. Being high level of heterogeneity in the structure. Peeling processes face a numerous problems. The root and tuber crops are produced in significant amount in India and world. This project is aimed at a development in mechanization of peeling systems for the root and tuber crops in food processing related industries and at house hold. The peel of ginger, potato and sweet potato's removed by many methods like manual or mechanical are most popular methods. The work of project performance is compare to the manual peeling. Consider this problems and develop the peeling machine, also consider their physical properties of ginger, potato and sweet potato. Mechanical peeling compares with a time of manual peeling In this project mechanical peeling are examine the three different rpm, they are 80 rpm, 100 rpm and 120 rpm to peel the ginger, potato and sweet potato. The perform evaluation of 80 rpm, 100 rpm and 120 rpm speed of disk on different time upto complete the peeling process. At that time increase the rpm more 20 rpm, this speed change the time of peeling less than 80 rpm and 100 rpm. This speed gate time less than 1 to 2 min.

■ **KEY WORDS** : Peeling, Peeling machine, Ginger, Potato, Sweet potato

■ **HOW TO CITE THIS PAPER** : Shinde, Ishwar N., Babar, K.P. and Bornare, D.T. (2018). Development of peeling machine for ginger, potato and sweet potato. *Internat. J. Agric. Engg.*, **11**(2) : 294-299, DOI: 10.15740/HAS/IJAE/11.2/294-299. Copyright@2018: Hind Agri-Horticultural Society.