**R**esearch **P**aper

International Journal of Agricultural Engineering / Volume 8 | Issue 2 | October, 2015 | 215-219

🖈 e ISSN-0976-7223 🔳 Visit us : www.researchjournal.co.in 🔳 DOI: 10.15740/HAS/IJAE/8.2/215-219

## Effect of dimensions of bamboo on their strength properties

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Received : 21.03.2015; Revised : 21.08.2015; Accepted : 18.09.2015

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Department of Farm Structures, College of Agricultural Engineering and Technology, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, DAPOLI (M.S.) INDIA ■ ABSTRACT : The average moisture content of fresh bamboo (cv. *Dendrocalamus stocksii*) after harvesting was found to be 58.33 per cent. The shrinkage of bamboo along diameter, thickness and length varied between 2.90 to 5.43 per cent, 3.02 to 10.88 per cent and 0.04 to 0.73 per cent, respectively. Thus, it was found that the shrinkage in thickness was more than diameter and that of shrinkage in thickness was more than length wise. The top portion of bamboo provides more compression and shear strength than bottom portion. The high compression strength was found for smaller length of bamboo as compared to larger length. It was also found that with node bamboo possessed more compression and shear strength than without node and six month old harvested bamboo possessed more compression strength than fresh bamboo.

- KEY WORDS : Shrinkage, Strength, Bamboo
- HOW TO CITE THIS PAPER : Jain, S.K., Kurhekar, S.P. and Kothe, S. (2015). Effect of dimensions of bamboo on their strength properties. *Internat. J. Agric. Engg.*, 8(2) : 215-219.