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RESEARCH NOTE

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Physical and mechanical properties of particle board made from lops and tops of *Populus deltoides* and *Broussonetia papyifera*

ANIL KUMAR AND KAPIL SIHAG

ABSTRACT : The present study was carried out with an objective to evaluate the density, moisture content, water absorption, general swelling, surface absorption, modulus of rupture, internal bonding and screw withdrawal strength of experimental Particle Board prepared from admixture (50:50) of *Populus deltoides* and *Broussonetia papyifera*. The Particle Boards were made with 8 per cent, 10 per cent and 12 per cent Phenol Formaldehyde resin and hot pressed at 21 kg/cm² for 12 minute. The physical and mechanical properties of resulted Particle Board meet the requirement of Indian Standard specification IS: 3087 (1985). The swelling of board is slightly higher than the require Indian Standard specification (3087) which can be controlled by suitable treatment.

KEY WORDS: Populus deltoides, Broussonetia papyifera, Particleboard, Phenol formaldehyde, Specific pressure

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