

# Application of resins and gums from natural sources for making handmade paper from jute residues

Ghosh I.N. and Pan N.C .

## ABSTRACT

Jute mainly grows in eastern India. It has been used as packaging material for different commodities and also to some extent for carpet backing, hessian, decorative fabrics etc. Due to stiff competition from synthetic fibre, it is necessary to find some new uses of jute fibre and its by-product. It has been established that jute fibre in the form of caddies, root cuttings, feshwa, gunny and thread waste etc. having high percentage of cellulose and long fibre are quite suitable as non-wood plant fibre for manufacture of different grades of paper and paper board, both in large scale as well as in handmade paper mills. The technique of handmade paper making is gaining importance day to day as it is inexpensive, consumes less energy and is free from pollution unlike large paper industries. Application of various natural resins and gums viz starch, cationic starch, yellow dextrin, gum arabic, guar gum etc. has been found effective in increasing the strength and other properties of jute pulp giving quality paper/paper board.