Abstract

Jute, the versatile natural fibre is the second largest natural fibre produced after cotton. Jute being one of the largest foreign exchange earners has a very important role in Indian economy. As far as quality is concerned, jute fibre is usually judged by its suitability for the production of numerous types of yarn and its behaviour in the manufacturing process. The quality however is not uniform and varies from place to place according to the nature of soil, weather conditions, type of water used for retting and the care exercised in subsequent processes. This lack of uniformity in quality has led to the classification and grading of jute with a view to facilitate its marketing and uses. Bureau of Indian Standard (formerly ISI) has formulated certain criteria by which the fibre quality of jute may be evaluated for grading purposes by "Hand &
Eye method. Moreover this method is subjective and assessment of fibre may vary from grader to grader. Hand and eye method of grading is in practice in the market for easy transaction. To do grading in hand and eye method is very difficult for a farmer because there are different sub-groups for each parameter. So the growers are deprived by the purchaser due to their inability to do grading. Therefore keeping the interest of the growers and traders the Automatic Integrated Jute Grading Instrument is developed which is simple and reliable.

References


Index Terms

Computer Science
Automated Systems

Keywords
Jute Automatic Grading Strength Root Content Defects Colour Fineness Bulk
Density