

Package of Equipment for making Rope from Outer Sheath of Banana Pseudostem

Utility

The waste from banana plantations can be turned into wealth by value addition to useful products. Ropes from the outer sheath of banana pseudostem are in high demand for different applications but are made labour intensive with hand spinning or by rattmachines. The package contains two equipment:



- i. Equipment for splitting of outer sheath of banana pseudostem
- ii. Equipment for twisting and winding rope out of splitted strands from outer sheath of banana pseudostem

Specifications & Performance results of twisting and winding equipment		
Power source	:	0.75 kW, electric motor
Number of twisting unit	:	4
Number of winding bobbins	:	4
Cost of twisting and winding equipment, Rs.	:	1,25,000/-
Total cost of the package of equipment, Rs	:	1,60,000/-
Cost of operation, Rs/m	:	0.20

Benefits over conventional/traditional practices

- Suitable for various eco-friendly handicraft materials like bags, curtains, table mats etc.
- Additional revenue to farmers/entrepreneurs/ processors.
- Higher quality rope with more uniform twist (Uniformity of 0.95 v/s 0.65 by manual method).
- Reduced space requirement (by about 80 %)
- Higher output (12000-15000 m/day)
- Saving in cost and labour to the tune of 65 and 70 %, respectively.

Design: ICAR-CIAE, Bhopal

Commercialization Status: Commercialized

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