

Platform Mounted Mobile Defibering Unit

PSG-STEP

PSG College of Technology



Objectives.....

- To maximise husk utilisation available at remote places
- To overcome the logistic issues in transportation of husk
- To initiate a separate sector of coir activity – smaller farm / less quantity
- To enhance the coir activity
 - Increased productivity
 - Increased employment

The machine.....

- Defibering Unit
- Combing Unit
- Beater
- Diesel Engines
 - 2 nos. for defibering unit & beater
- Size : 10ft L x 5ft B x 6.5 ft H



View of the machine....



View of the machine....



View of the machine....



View of the machine....



View of the machine....



Basis for development...

- Target the smaller quantity husk
- Possibility for engaging self help groups in operating the machine
- Convenient to couple with tractor
- To have a size to transport in farm path
- Reduce the power consumption / utilise the power availability



Economics...

- No. of husk per hour - 1000 husks
- Type of husks
 - Green husk
 - Dry husk
- Manpower required - 3 people



Economics...

- Minimal water usage
- Power required - 12.5 HP
 - Defibering unit (7.5 HP)
 - Beater (5 HP)
- Diesel consumption rate – less than 1.5 litres / hour.

Version 2...



What ahead...

- The engines can be removed.
- The power transmission to Defibering Unit and Beater can be taken from tractor engine.
- The input to beater is done manually – can be avoided by introducing conveyer.



Thank you

