# Platform Mounted Mobile Defibering Unit

PSG-STEP
PSG College of Technology

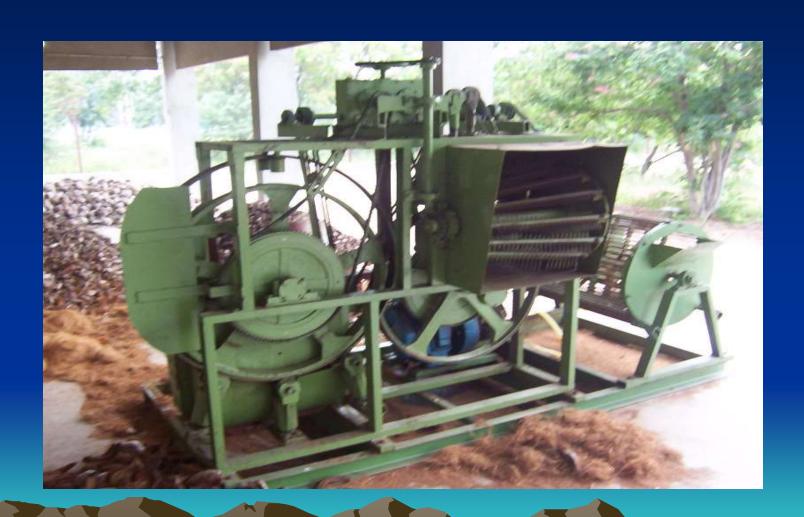
#### Objectives....

- 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











# 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 conveyor.

# Thank you