## Post harvest technologies: Threshing options





**Pedal powered** INR 3000-6000 Foot is used to pedal and turn the drum Threshing capacity: 50-60 kg/hr

- Low cost Easy to use
- Low maintenance
- No electricity required
- Portable for moving from farm to farm
- Allows full length of straw to be recovered
- Difficult to pedal for a long time
- Low capacity compared to electric and diesel powered threshers
- No winnowing or bagging function (grain must be gathered and cleaned as additional operation)



- **Electric motor powered** INR 20,000 1 HP (0.75Kw) electric motor Threshing capacity: 15 bags/7-8 hrs
- Relatively low cost of use as electric
- Subsidy available from government
- Ease of repair and maintenance
- Capacity for 2 people to thresh at the same time
- Winnowing attachment can be added
- Cannot be used without electricity
- Lower capacity than larger threshers
- Winnowing (if not attached) and bagging have to be carried out as separate functions

## **Disel engine powered**

INR 24,000 - 30,000 4.5 HP diesel engine Threshing capacity: 35 bags/7-8 hrs

- Portable (no electricity required) • Higher capacity for use in providing contract services
  - Lower cost/bag compared to the electric thresher
  - Up to 4 people can thresh at the same time
  - Best advantage: allows threshing in the field immediately up to cutting and reduces post harvest losses
  - Winnowing fan can be added for 1-step threshing and cleaning

- Requires some training to operate
- Repair and maintenance by fabricators when required
- Running cost of diesel and oil





Department of Agriculture, Assam is the nodal department for implementation of APART ARIAS Society is the State Level coordinating and monitoring agency for APART Assam Agricultural University is the leading Agricultural University of the State and implementing

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