

4. Commercialized technologies

A.

CRIJAF SONA	
Details	Benefit
<ul style="list-style-type: none"> Talc based microbial retting consortium Consist <i>Bacillus spp.</i> Shelf life of the talc is 6 months Dose: 25 to 30 kg for retting of jute plants harvested from 1 ha area 	<ul style="list-style-type: none"> Retting duration reduced by 7 days, water requirement (1:5) Increased fibre recovery of 10% Fibre quality 1-2 grade upgraded Income increase Rs. 12,000 - 15,000/ha



B.

Multi Row Seed Drill	
Details	Benefit
<ul style="list-style-type: none"> Seed sowing machine, manually operated and portable Ideal for line sowing of jute Operational efficiency 0.2 ha/hr. 	<ul style="list-style-type: none"> Yield increases by 10-15% Cost reduction Rs. 6500 /ha. Seed rate 50-60% less



C.

Nail Weeder

Details

- Mechanical weeding device, manually operated and portable
- Used for controlling composite weed
- 80 to 85 % weeds can be controlled
- Weeding capacity: 0.013 ha/h

Benefit

- Cost reduction of Rs. 10000/ha
- Drudgery reduction by 50%
- Ideal for conservation of soil moisture under drought conditions.



D.

Single Wheel Jute Weeder

Details

- Mechanical weed controlling device, manually operated and portable
- Control composite weeds in between lines
- Weeding capacity: 0.028 ha/h, i.e. 35 man-hours/ha

Benefit

- Reduce weeding cost by Rs.15000 - 18000/ha
- Ideal for conservation of soil moisture under drought conditions.
- Eco-friendly and reduce drudgery.



E.

Ramie and Sisal Fibre Extractor

Details

- Fibre extraction machine for ramie and sisal
- Operated by 3.5 hp diesel engine
- Capacity for ramie fibre extraction is ~400-450 kg plants/h
- Capacity for sisal fibre extraction is ~300-350 kg leaves/h
- Can be used for banana and pineapple fibre extraction also

Benefit

- 55-60% higher fibre recovery with extraction efficiency of more than 90%
- Designed ergonomically for user comfort and less maintenance.



F.

Herbicide Applicator

Details

- A tool to apply herbicide under field condition
- Manually operated, precise application
- Used to apply non selective herbicides in directed manner in between row / broadcast crops to control composite weed flora.

Benefit

- Environment safe
- Eliminates the drift hazard of chemicals
- Reduces the weeding cost by 70-80%



G.

Flax Fibre Extractor

Details

- Fibre extraction machine for flax
- Electrically operated, portable
- Capacity is 30-35 kg straw/h

Benefit

Reduce extraction cost Rs. 30000/ha compared to manual extraction

