






# Post-Harvest Technologies: Threshing Options

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	Details	Positives 	Negatives 
	<p><b>Pedal Powered</b> Rs. 3000 — 6000</p> <ul style="list-style-type: none"> <li>• Foot is used to pedal and turn the drum</li> <li>• Threshing capacity: 50-60 kg/hr</li> </ul>	<ul style="list-style-type: none"> <li>• Low cost</li> <li>• Easy to use</li> <li>• Low maintenance</li> <li>• No electricity or diesel required</li> <li>• Portable for moving farm to farm</li> <li>• Allows full length straw to be recovered</li> </ul>	<ul style="list-style-type: none"> <li>• Difficult to pedal for long duration</li> <li>• Low capacity compared to electric and diesel powered threshers</li> <li>• No winnowing or bagging function (grain must be gathered and cleaned as additional operations)</li> </ul>
	<p><b>Electric Motor Powered</b> Full price - Rs. 20,000 (Rs 10,000 subsidy from GoO)</p> <ul style="list-style-type: none"> <li>• 1 hp (0.75 Kw) electric motor turns the threshing drum.</li> <li>• Threshing capacity is approx. 15 bags / 7-8 hours (15 bags * 75 kg/bag = 1125 kg)</li> </ul>	<ul style="list-style-type: none"> <li>• Relatively low cost to use (electric)</li> <li>• Subsidy available from govt.</li> <li>• Ease of repair and maintenance</li> <li>• Capacity for 2 people to thresh</li> </ul>	<ul style="list-style-type: none"> <li>• Cannot be used without electricity</li> <li>• Lower capacity than larger threshers</li> <li>• Winnowing and bagging are separate operations</li> <li>• Farmers charged or 'fined' for using electricity</li> <li>• Cannot be used in the farmer's field where electricity connection is unavailable</li> </ul>
	<p><b>Diesel Engine Powered</b> Rs. 24,000 — 30,000</p> <ul style="list-style-type: none"> <li>• 4.5 hp diesel engine turns threshing drum</li> <li>• Threshing capacity is approx. 35 bags /7-8 hours (35 bags x 75 kg/bag = 2625 kg)</li> </ul>	<ul style="list-style-type: none"> <li>• Portable (no electricity required)</li> <li>• Higher capacity for use in providing contract services</li> <li>• Lower cost/ bag compared to electric thresher</li> <li>• Up to 4 people can thresh</li> <li>• <b>Best advantage:</b> allows threshing in the field immediately upon cutting and reduces PH losses</li> <li>• Winnowing fan can be added for 1-step threshing and cleaning</li> </ul>	<ul style="list-style-type: none"> <li>• Requires some training to operate</li> <li>• Repair and maintenance to be done by fabricator as and when required</li> <li>• Running cost — diesel and oil</li> </ul>