






Post-Harvest Technologies: Threshing Options

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