Green Team Product Contract

Danielle Chu, Emily Hilton, Neera Jain, Sam Jewell, Amy Lam, Muyinatu Lediju, Diana Lui, Danny Nunez, Jon Slowik, Steven Stoddard, Brady Young, Helen Zelman

Product Description: Machine to sort lentils from rocks/chaff. **Intended Customers:** Small to medium lentil farmers. **Market:** Farming machinery.

Customer Need	Product Attribute(s)	Engineering Specification(s)
Output lentils can be stored safely for several months	Accurately separates stones, chaff, and foreign material from lentils	Machine output is 95 % lentils by mass?
Can clean season's harvest quickly	Rate	Processes at least 50 bushels/hr
Is affordable	Price	Retail price under \$1000
Does not require constant supervision	Automation of all feeding, cleaning, and transition steps	Inputs/outputs of all series steps must match, robust queuing/buffer systems between steps
Is durable, has adequate lifetime	All components designed for 3 year minimum lifetime (expected payback period)	Galvanized steel or aluminum construction, robust dynamic components
Contains all material	No lentils, chaff, or stones will escape from the system	Containment barriers or bins at all stages of the system
Is portable	Weight, mobility	Keep weight under 120 lbs. and have wheels