



## Consolation Award

### Mobile Groundnut Thresher

Nileshbhai Dobariya & Pankajbhai Lunagariya  
Rajkot, Gujarat  
Scout: GIAN West

Nileshbhai (35) is a practicing farmer also involved in trading of plastic items along with farming. Pankajbhai (35) is a fabricator by profession. Nileshbhai is an enthusiastic individual with a strong sense of service to mankind. He has developed an automatic battery operated floor cleaning device which is in use at the Swaminarayan temple in his village.

Nileshbhai observed that farmers faced scarcity of labor at the time of groundnut harvesting. The use of conventional threshers, requires adequate labor to collect the harvested/dug groundnut stalk. Delay in collection of harvested stalk, which is allowed for drying after digging, results in loss of groundnut. To overcome this problem, Nilesh along with his friend Pankaj started working on a solution, which could move around the field and pick up the heaps of harvested and dried groundnut

stalks on its own. They developed their first prototype in 2015 and then set out to improve it.

They developed a modified tractor mounted PTO powered mobile automatic thresher, which consists of an endless chain for collecting pods and stalk, a threshing unit, a separation unit for groundnut pods and stalks and a separate chamber for storage of groundnut pods and stalk. It consumes 2 lit of diesel to cover 1 to 1.5 acres of land in 1 hour with a capacity to store 600kg of groundnut and 800kg of stalk. It has been successfully used for threshing groundnut with an efficiency of 90%. Its cost of operation is only Rs 280 to 300 per hectare. It can also be used for harvesting soya bean and pigeon pea. The cost of the mobile groundnut thresher is Rs 500,000 only.

