

## Innovations Innovative implements developed by Mr. Senthil

Mr. Senthil (aged 38) in Melur town is running his own lathe work shop for the past two decades. He studied up to 8<sup>th</sup> standard and looking after the lathe workshop owned by his family for more than 40 years. His family has 5 members including wife Smt. Pandikumari and 3 children viz. Divyadharsini, Tamil Nachiyar, Santhosh Subramanian. He developed innovative implements viz. ground nut separator, coconut cutter, climbing shoe for climbing poles of electricity grid. The lathe workshop is popular for repairing of agricultural implements and also domestic purpose.

### 1. Groundnut separator:



Groundnut separator has 30" height, 20" breadth and having "L" shaped iron steel rod fitted to the table type arrangement. In the middle of the iron plate he has fitted 2 feet lengthy iron rod. He used old cycle wheel (rim) for rotating with the help of 'V' shape belt using ¼ HP motor. Switch on the motor, then rotation of the cycle rim begins. Take and insert ground nut harvested plants in to the fast rotating folks of the cycle rim area. Pods will be separated easily. To avoid fall away of pods or spillage he has fitted 2 plates on the either side of the rim and collect easily all the pods.

Advantage:

1. Labour saving machine and it requires 3 labourers for performing groundnut decardicate the pods harvested in one acre instead of 14 labourers.
2. Use of electricity unit is very low

He has developed 2 models viz. ordinary machine cost is Rs 8000 while the improved model costs Rs. 12000. He sold 36 machines so far to farmers in many districts of Tamil Nadu.

## 2. Coconut cutter :



He developed a lever frame with steel cutter of 70'' length, 20'' breath , 5 feet height for cutting the coconut. Then he has bend 2 iron angle in between the bed. The iron steel length is 5 feet and holding the ripe coconut. And he fixed a long handled steel plate towards the bed and operated with the help of hand. The hand operated rod looks like V shape. In between two steel angle he fixed half round shaped or knife like 4 feet lengthy plate. This hold the coconut in position in the U shaped steel holder and then press down handle towards the coconut and split in to 2 halves. It saves 50 percent of time a labour usually engaged while cutting the coconuts.

Advantage and cost per unit:

1. Cost of the machine is Rs 7000 per machine and he sold about 25 cutters to many farmers.
2. Easily portable to any place or field
3. Long life less maintenance

## 3. Climbing shoe for climbing electricity poles :



He developed a pair of iron shoes fitted in a iron ring and used while climbing the poles. This will ensure no falling out while climbing the height of the poles fast. He sold about 600 numbers to the Tamil Nadu electricity board

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