



State Award – Assam

Reciprocating Tea Dryer and others

Durlov Gogoi
Dibrugarh, Assam

Durlov Gogoi (51) is a serial innovator, who also loves composing and writing Assamese patriotic songs. Durlov has developed many tea processing machines, which include mini tea steamer, round tea dryer, reciprocating tea dryer, semi-automatic tea dryer, turmeric slicing machine, tea breaker, etc.

He owns a small tea garden, whose produce, was being sold to large tea factories nearby. This resulted in losses for him as a gunny bag full of fresh green tea leaves fetched him Rs. 3-8/bag only. Therefore he thought of buying a tea dryer, to process his own tea and sell dried tea in the market. He purchased a dryer but was not satisfied with its performance, hence he decided to

develop his own tea dryer. After years of trial and error, he developed his first tea dryer i.e. the reciprocating tea dryer.

The reciprocating tea dryer is also called as a push-pull tea dryer/to-fro tea dryer. Slider crank mechanism is used for the reciprocating motion of the drying trays. The drying capacity of the dryer with 14 plates is about 20-30 kg (wet weight) resulting in about 6 kg (dry weight) dried tea leaves in 40 min. The drying temperature can be maintained up to 100 C. The cost of machine for LPG unit with heater/kiln is Rs 2.5 lakh/ unit and for wood and other biomass with heater/kiln is Rs 3 lakh. Durlov has received positive feedback and has sold five units till now.

