



Consolation Award

Reeling Machine for Muga and Mulberry

Saruj Chetia
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Saruj Chetia (30) is an innovator and a farmer who owns a poultry feed supplying shop and a computer shop. He completed his 12th and further pursued a one year ITI course in Information Technology. In his free time, he works on developing solutions for local problems. He has developed reeling machine for Muga and Mulberry and also undertaken a project on production of bio-fertilizer using poultry wastes.

Saruj practiced Muga cultivation and production using traditional method, which was very time taking and required more man power. Since he could not afford the reeling machine available in market, he

conceptualized a new low-cost design of reeling machine. He developed a prototype using the parts of a sewing machine, though it proved to be inefficient. He continued working on it and was able to develop an improved version of reeling machine, which could be used for reeling both Digh (Warp yarn) and Bani (filling yarn) simultaneously.

The machine can be operated by electricity (1hp motor) or manually as well. It can reel 300-500 cocoons for filling yarns (less twisting, thicker yarn) and 250-300 cocoons for warp yarns (more twisting, thinner yarn) in 8 hours.

